Vasos de Impacto

PÁG.	
158	**1/4"**
161	**3/8"**
172	**1/2"**
188	**5/8"**
190	**3/4"**
199	**1"**
207	**1 - 1/2"**
209	**2 - 1/2"**
211	**3 - 1/2"**
212	**Accesorios**

Vasos de Impacto

☐ 1/4" ☐ 3/8" ☐ 1/2" ☐ 3/4" ☐ 1" ☐ 1-1/2" ☐ 2-1/2" ☐ 3-1/2"

El logotipo de Koken y el diámetro del vaso se identifican fácilmente con letras blancas sobre el pavonado permaneciendo indeleblemente estampadas.

Surface Drive

Los Vasos de Contacto Curvo se diseñan para mantener el contacto con las caras planas de la tuerca y transmitir un alto par reduciendo el desgaste de la tuerca. Estos vasos son ideales para utilizarse en tuercas pulidas, tuercas de aluminio y tuercas con puntas desgastadas.

Vasos de pared delgada

Con el fin de trabajar con la herramienta adecuada para cada aplicación, Koken ofrece vasos de pared delgada con tres longitudes distintas.

Standard

Mediano

Largo

Pathfinder®

Las caras biseladas de la boca hexagonal del Vaso Guía acoplan el vaso inmediatamente. Los Vasos Guía son ideales para su utilización con herramientas mecánicas en procesos de montaje automáticos, ya que no es necesario que la herramienta esté completamente parada para acoplar el vaso a la tuerca.

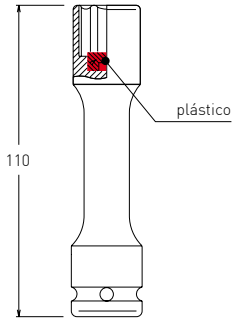
Vasos de impacto para tuercas de rueda

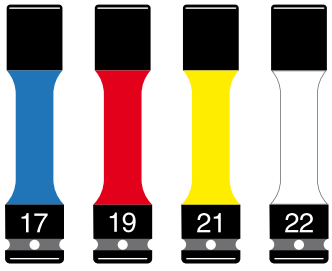
Diseño especial para trabajos de ruedas.

La longitud de 110 mm proporciona al vaso mayor profundidad de acceso para tuercas muy metidas dentro de la rueda y es ideal para tuercas de llantas de aluminio que tienen un acceso muy estrecho a la tuerca.

Los códigos de color de las cañas azul (17 mm), rojo (19 mm), amarillo (21mm) y blanco (22mm), facilitan la identificación de los diámetros.

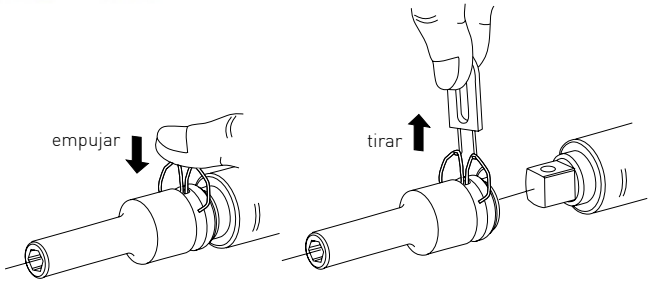
La inserción de plástico contribuye a prevenir el dañado de la tuerca.





Aro de acero elástico de una pieza

Colocación sencilla apretando con el dedo y fácilmente extraíble con el extractor. Mucho más cómodo que la combinación de pasador y junta tórica.



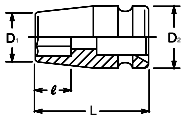
Garantía

Los adaptadores de este catálogo marcados con ⚠ deben utilizarse de forma razonable . pueden ser sometidos a un par de torsión que pueden provocar su rotura. en interés de su propia seguridad, aplique siempre la fuerza de forma uniforme y progresiva para evitar la rotura. manténgase siempre dentro de los límites de seguridad.

⬡ VASOS HEXAGONALES

12400M 12400A

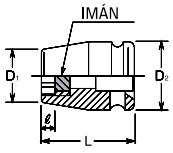
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
4	**5/32**	7,5	13	4	23	14	**12400M4**	**4,40**	**12400A5/32**	**4,40**
4,5	**3/16**	8,1	13	4	23	14	**12400M4,5**	**4,40**	**12400A3/16**	**4,40**
5		8,8	13	4	23	14	**12400M5**	**4,40**		
5,5	**7/32**	9,4	13	4	23	14	**12400M5,5**	**5,03**	**12400A7/32**	**4,40**
6	**1/4**	10	13	5	23	14	**12400M6**	**4,40**	**12400A1/4**	**4,40**
7	**9/32**	11,3	13	5	23	14	**12400M7**	**4,40**	**12400A9/32**	**4,40**
8	**5/16**	12,5	13	6	23	14	**12400M8**	**4,40**	**12400A5/16**	**4,40**
9	**11/32**	13,8	13	7	23	14	**12400M9**	**4,40**	**12400A11/32**	**4,55**
10	**3/8**	15	13	7	23	15	**12400M10**	**4,75**	**12400A3/8**	**4,75**
11	**7/16**	16,3	13	8	23	18	**12400M11**	**4,75**	**12400A7/16**	**4,75**
12		17,5	13	8	23	19	**12400M12**	**4,75**		
13	**1/2**	18,8	13	8	23	19	**12400M13**	**4,75**	**12400A1/2**	**4,75**
14	**9/16**	20	13	9	23	20	**12400M14**	**5,16**	**12400A9/16**	**5,16**



⬡ VASOS HEXAGONALES CON IMÁN

12400MG 12400AG

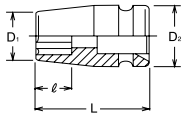
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
4		7,5	13	2,1	23	12	**12400MG4**	**10,36**	**12400AG5/32**	**10,49**
4,5	**3/16**	8,1	13	2,1	23	13	**12400MG4,5**	**10,36**	**12400AG3/16**	**10,49**
5		8,8	13	2,1	23	15	**12400MG5**	**10,36**		
5,5		9,4	13	2,1	23	15	**12400MG5,5**	**10,36**		
6	**1/4**	10	13	2,4	23	16	**12400MG6**	**10,36**	**12400AG1/4**	**10,49**
7		11,3	13	2,8	23	16	**12400MG7**	**10,76**		
8	**5/16**	12,5	13	3,5	23	17	**12400MG8**	**10,94**	**12400AG5/16**	**11,10**
9	**11/32**	13,8	13	3,8	23	18	**12400MG9**	**10,94**	**12400AG11/32**	**11,10**
10	**3/8**	15	13	4,2	23	18	**12400MG10**	**11,37**	**12400AG3/8**	**11,56**
11	**7/16**	16,3	13	4,9	23	21	**12400MG11**	**11,78**	**12400AG7/16**	**11,88**
12		17,5	13	5,6	25	21	**12400MG12**	**11,78**		
13	**1/2**	18,8	13	6	25	21	**12400MG13**	**11,78**	**12400AG1/2**	**11,88**
14	**9/16**	20	13	6,4	25	20	**12400MG14**	**18,51**	**12400AG9/16**	**18,94**



⬡ VASOS SURFACE DRIVE (DE CONTACTO CURVO)

12410M

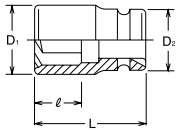
mm	D1	D2	ℓ	L	⚖	Ref	€
6	10	13	5	23	14	**12410M6**	**5,18**
7	11,3	13	5	23	15	**12410M7**	**5,18**
8	12,5	13	6	23	15	**12410M8**	**5,18**
9	13,8	13	7	23	14	**12410M9**	**5,18**
10	15	13	7	23	14	**12410M10**	**5,79**
11	16,3	13	8	23	17	**12410M11**	**5,79**
12	17,5	13	8	23	19	**12410M12**	**5,79**
13	18,8	13	8	23	19	**12410M13**	**5,79**



⬡ VASOS PATHFINDER (GUÍA)

12465M

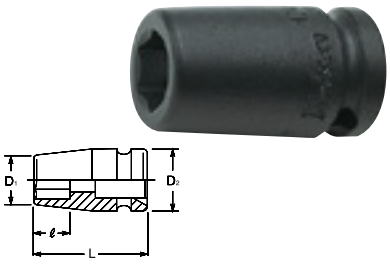
mm	D1	D2	ℓ	L	⚖	Ref	€
10	15	13	8	23	17	**12465M10**	**11,10**
11	16,3	13	8	23	18	**12465M11**	**11,10**
12	17,5	13	9	23	18	**12465M12**	**11,10**
13	18,8	13	9	23	20	**12465M13**	**11,10**



VASOS TORX®

12425

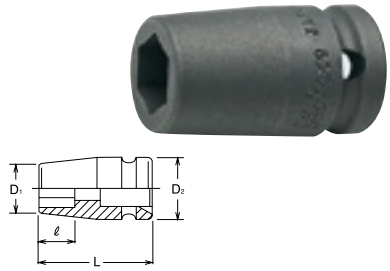
TORX®	D1	D2	ℓ	L	⚖	Ref Métrica	€
E4	6,6	13	4,6	23	14	**12425E-4**	**7,02**
E5	7,7	13	5,2	23	15	**12425E-5**	**7,02**
E6	8,7	13	5,4	23	15	**12425E-6**	**7,02**
E7	9,2	13	6,6	23	15	**12425E-7**	**6,42**
E8	9,7	13	7	23	15	**12425E-8**	**6,42**
E10	12,2	13	8,2	23	15	**12425E-10**	**6,42**



VASOS PARA TORNILLOS AUTORROSCANTES

12460M 12460A

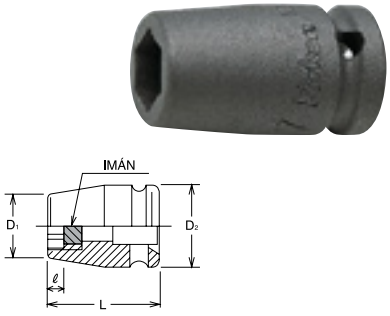
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
5,5		9,7	13	4	23	15	**12460M5,5**	**7,49**		
6	**1/4**	10,3	13	5	23	15	**12460M6**	**7,49**	**12460A1/4**	**7,95**
7		11,6	13	5	23	16	**12460M7**	**7,49**		
8	**5/16**	12,8	13	6	23	16	**12460M8**	**7,49**	**12460A5/16**	**7,95**
10	**3/8**	15,3	13	7	23	19	**12460M10**	**7,49**	**12460A3/8**	**7,95**
13	**1/2**	19,1	13	8	23	23	**12460M13**	**8,43**	**12460A1/2**	**8,76**



VASOS PARA TORNILLOS AUTORROSCANTES

12460MG 12460AG

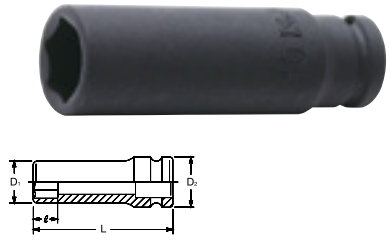
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
5,5		9,7	13	2,1	23	16	**12460MG5,5**	**12,86**		
6	**1/4**	10,3	13	2,4	23	16	**12460MG6**	**12,86**	**12460AG1/4**	**13,44**
7		11,6	13	2,8	23	16	**12460MG7**	**13,31**		
8	**5/16**	12,8	13	3,5	25	18	**12460MG8**	**13,45**	**12460AG5/16**	**14,03**
10	**3/8**	15,3	13	4,2	28	20	**12460MG10**	**13,62**	**12460AG3/8**	**14,38**
	7/16	16,6	13	4,9	29	27			**12460AG7/16**	**15,15**
12		17,9	13	8	30	41	**12460MG12**	**13,62**		
13	**1/2**	19,1	13	6	30	23	**12460MG13**	**14,55**	**12460AG1/2**	**15,15**
14		20	13	6,4	30	24	**12460MG14**	**21,14**		



VASOS HEXAGONALES LARGOS

12300M

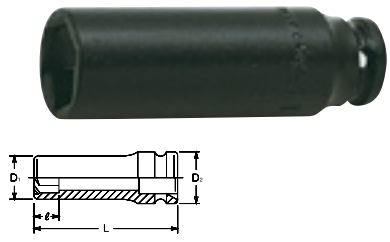
mm	D1	D2	ℓ	L	⚖	Ref	€
6	10	13	6	48	26	**12300M6**	**9,56**
7	11,3	13	7	48	30	**12300M7**	**9,56**
8	12,5	13	8	48	32	**12300M8**	**9,56**
10	15	13	10	48	34	**12300M10**	**11,80**
11	16,3	13	11	48	46	**12300M11**	**11,81**
12	17,5	13	12	48	49	**12300M12**	**11,81**
13	18,8	13	13	48	52	**12300M13**	**12,53**
14	20	13	14	48	57	**12300M14**	**12,53**



VASOS PATHFINDER (GUÍA) LARGOS

12365M

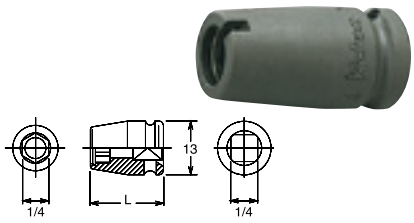
mm	D1	D2	ℓ	L	⚖	Ref	€
10	15	13	8	48	34	**12365M10**	**13,94**
11	16,3	13	8	48	46	**12365M11**	**13,94**
12	17,5	13	9	48	49	**12365M12**	**13,94**
13	18,8	13	9	48	52	**12365M13**	**13,94**



⬡ PORTA PUNTA

12139

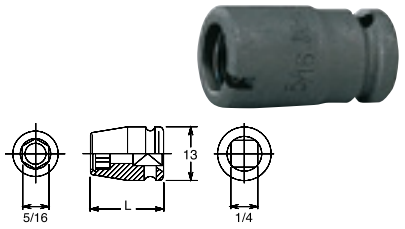
Ref	L	⚖	€
12139	25	15	**12,72**



⬡ PORTA PUNTA

12140

Ref	L	⚖	€
12140	25	15	**12,72**



ALARGADERAS

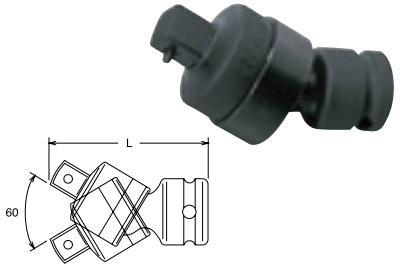
12760-55P **12760-75P**

Ref	L	⚖	€
12760-55P	55	26	**14,37**
12760-75P	75	45	**14,37**

ARTICULACIÓN UNIVERSAL

12770-P

Ref	L	⚖	€
12770-P	39	30	**35,16**



ADAPTADOR

12233A-P

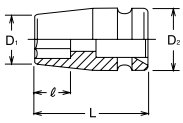
Ref	L	⚖	€
12233A-P	22	15	**13,37**

凹1/4"x 凸3/8"

○ VASOS HEXAGONALES

13400M 13400A

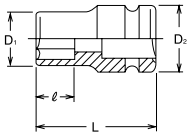
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	10,8	19	5	32	40	**13400M6**	**5,96**	**13400A1/4**	**5,96**
7		12	19	5	32	40	**13400M7**	**5,96**		
8	**5/16**	13,3	19	6	32	40	**13400M8**	**5,96**	**13400A5/16**	**5,96**
9		14,5	19	7	32	40	**13400M9**	**5,96**		
10	**3/8**	15,8	19	7	32	40	**13400M10**	**5,96**	**13400A3/8**	**5,96**
11	**7/16**	17	19	8	32	41	**13400M11**	**5,96**	**13400A7/16**	**5,96**
12		18,3	19	9	32	43	**13400M12**	**5,96**		
13	**1/2**	19,5	22	10	32	56	**13400M13**	**5,96**	**13400A1/2**	**6,57**
14	**9/16**	20,8	22	10	32	56	**13400M14**	**5,96**	**13400A9/16**	**6,57**
15		22	22	11	32	56	**13400M15**	**6,57**		
16	**5/8**	23,3	22	11	32	57	**13400M16**	**6,57**	**13400A5/8**	**6,57**
17	**11/16**	24,5	22	12	32	60	**13400M17**	**6,56**	**13400A11/16**	**6,57**
18		25,8	22	12	32	62	**13400M18**	**6,57**		
19	**3/4**	27	22	12	32	67	**13400M19**	**6,56**	**13400A3/4**	**7,03**
20		28,3	22	12	32	70	**13400M20**	**7,79**		
21	**13/16**	29,5	22	12	32	71	**13400M21**	**7,79**	**13400A13/16**	**7,43**
22	**7/8**	30,8	22	13	32	72	**13400M22**	**8,30**	**13400A7/8**	**9,73**
23		32	22	13	32	75	**13400M23**	**9,75**		
24		33,3	22	13	32	78	**13400M24**	**12,86**		



○ VASOS HEXAGONALES PARED DELGADA

13401M 13401A

mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	10,8	19	5	32	40	**13401M6**	**8,52**	**13401A1/4**	**8,86**
7		12	19	5	32	40	**13401M7**	**8,52**		
8	**5/16**	13,3	19	6	32	40	**13401M8**	**8,52**	**13401A5/16**	**8,86**
9		14,5	19	7	32	40	**13401M9**	**8,52**		
10	**3/8**	15,8	19	7	32	40	**13401M10**	**8,52**	**13401A3/8**	**8,86**
11	**7/16**	17	19	8	32	41	**13401M11**	**8,52**	**13401A7/16**	**8,86**
12		18,3	19	9	32	43	**13401M12**	**8,52**		
13	**1/2**	19,5	22	10	32	56	**13401M13**	**9,14**	**13401A1/2**	**9,58**
14	**9/16**	20,8	22	10	32	56	**13401M14**	**9,14**	**13401A9/16**	**9,58**
15		22	22	11	32	56	**13401M15**	**9,14**		
16	**5/8**	23,3	22	11	32	57	**13401M16**	**9,14**	**13401A5/8**	**9,58**
17	**11/16**	24,5	22	12	32	60	**13401M17**	**9,14**	**13401A11/16**	**10,18**
18		25,8	22	12	32	62	**13401M18**	**9,71**		
19	**3/4**	27	22	12	32	67	**13401M19**	**9,71**	**13401A3/4**	**10,18**
20		28,3	22	12	32	70	**13401M20**	**10,00**		
21	**13/16**	29,5	22	12	32	71	**13401M21**	**10,52**	**13401A13/16**	**10,92**
22	**7/8**	30,8	22	13	32	72	**13401M22**	**11,53**	**13401A7/8**	**12,02**
23		32	22	13	32	75	**13401M23**	**13,19**		
24		33,3	22	13	32	78	**13401M24**	**14,21**		



JUEGO DE VASOS EN REGLETA

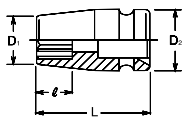
RS13401M/9

Ref	Tipo		⚖			€
RS13401M/9	**○ 13401M**	250	505	9	8, 10, 12, 13, 14, 17, 19, 21, 22	**87,85**

○ VASOS BIHEXAGONALES

13405M

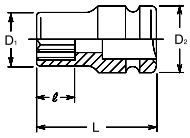
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
8	13,3	19	6	32	40	**13405M8**	**8,52**
9	14,5	19	7	32	40	**13405M9**	**8,52**
10	15,8	19	7	32	40	**13405M10**	**8,52**
11	17	19	8	32	41	**13405M11**	**8,52**
12	18,3	19	9	32	43	**13405M12**	**8,52**
13	19,5	22	10	32	56	**13405M13**	**9,14**
14	20,8	22	10	32	56	**13405M14**	**9,14**
15	22	22	11	32	56	**13405M15**	**9,14**
16	23,3	22	11	32	57	**13405M16**	**9,14**
17	24,5	22	12	32	60	**13405M17**	**9,14**
18	25,8	22	12	32	62	**13405M18**	**9,72**
19	27	22	12	32	67	**13405M19**	**9,72**



○ VASOS BIHEXAGONALES DE PARED DELGADA

13406M

mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
6	9,8	18,5	5	32	28	**13406M6**	**8,49**
7	11	18,5	5	32	30	**13406M7**	**8,49**
8	12,3	18,5	6	32	31	**13406M8**	**8,49**
9	13,5	18,5	7	32	32	**13406M9**	**8,49**
10	14,8	18,5	7	32	34	**13406M10**	**8,52**
11	16	18,5	8	32	35	**13406M11**	**8,52**
12	17,3	18,5	9	32	36	**13406M12**	**8,52**
13	18,5	21,5	10	32	43	**13406M13**	**9,14**
14	19,8	21,5	10	32	49	**13406M14**	**9,14**
15	21	21,5	11	32	49	**13406M15**	**9,14**
16	22,3	21,5	11	32	51	**13406M16**	**9,14**
17	23,5	21,5	12	32	54	**13406M17**	**9,14**
18	24,8	21,5	12	32	57	**13406M18**	**9,73**
19	26	21,5	12	32	60	**13406M19**	**9,73**
20	27,3	21,5	12	32	65	**13406M20**	**9,73**
21	28,5	21,5	12	32	70	**13406M21**	**10,01**
22	29,8	21,5	13	32	73	**13406M22**	**10,01**
23	31	21,5	13	32	73	**13406M23**	**10,01**
24	32,3	21,5	13	32	75	**13406M24**	**10,84**

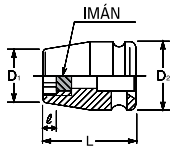


○ VASOS HEXAGONALES CON IMÁN

13400MG **13400AG**

mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	10,8	19	2,4	32	46	**13400MG6**	**12,79**	**13400AG1/4**	**12,88**
7		12	19	2,8	32	45	**13400MG7**	**12,79**		
8	**5/16**	13,3	19	3,5	32	45	**13400MG8**	**12,79**	**13400AG5/16**	**13,31**
9		14,5	19	3,8	32	44	**13400MG9**	**12,79**		
10	**3/8**	15,8	19	4,2	32	49	**13400MG10**	**12,79**	**13400AG3/8**	**13,31**
11	**7/16**	17	19	4,9	32	50	**13400MG11**	**12,79**	**13400AG7/16**	**13,31**
12		18,3	19	5,6	32	55	**13400MG12**	**12,79**		
13	**1/2**	19,5	22	6	32	70	**13400MG13**	**12,79**	**13400AG1/2**	**13,31**
14	**9/16**	20,8	22	6,4	32	76	**13400MG14**	**13,79**	**13400AG9/16**	**15,34**
15		22	22	6,8	32	76	**13400MG15**	**15,33**		
16	**5/8**	23,3	22	7	32	88	**13400MG16**	**15,33**	**13400AG5/8**	**15,34**
17	**11/16**	24,5	22	7,5	32	95	**13400MG17**	**15,33**	**13400AG11/16**	**15,34**
18		25,8	22	7,8	32	105	**13400MG18**	**15,33**		
19	**3/4**	27	22	8	32	116	**13400MG19**	**15,33**	**13400AG3/4**	**15,34**
21		29,5	22	8	32	125	**13400MG21**	**44,50**		
22		30,8	22	9,5	32	135	**13400MG22**	**45,21**		

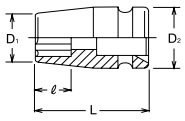
Patentado



○ VASOS SURFACE DRIVE (DE CONTACTO CURVO)

13410M

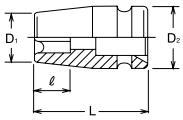
mm	D1	D2	ℓ	L	⚖	Ref	€
6	10,8	19	55	32	40	**13410M6**	**7,33**
7	12	19	5	32	40	**13410M7**	**7,33**
8	13,3	19	6	32	40	**13410M8**	**7,33**
9	14,5	19	7	32	40	**13410M9**	**7,33**
10	15,8	19	7	32	40	**13410M10**	**7,33**
11	17	19	8	32	42	**13410M11**	**7,33**
12	18,3	19	9	32	50	**13410M12**	**7,33**
13	19,5	22	10	32	56	**13410M13**	**7,99**
14	20,8	22	10	32	56	**13410M14**	**7,99**
15	22	22	11	32	56	**13410M15**	**7,99**
16	23,3	22	11	32	57	**13410M16**	**7,99**
17	24,5	22	12	32	60	**13410M17**	**7,99**
18	25,8	22	12	32	62	**13410M18**	**8,28**
19	27	22	12	32	67	**13410M19**	**8,28**
22	30,8	22	13	32	72	**13410M22**	**10,01**



VASOS PATHFINDER (GUÍA)

13465M

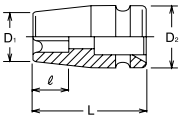
mm	D1	D2	ℓ	L	⚖	Ref	€
8	13,3	19	8	32	40	**13465M8**	**11,60**
10	15,8	19	8	32	43	**13465M10**	**11,60**
11	17	19	8	32	44	**13465M11**	**11,60**
12	18,3	19	9	32	47	**13465M12**	**11,60**
13	19,5	22	9	32	55	**13465M13**	**11,89**
14	20,8	22	11	32	56	**13465M14**	**11,89**
15	22	22	11	32	56	**13465M15**	**11,89**
16	23,3	22	11	32	57	**13465M16**	**11,89**
17	24,5	22	12	32	60	**13465M17**	**11,89**
18	25,8	22	13	32	63	**13465M18**	**12,41**
19	27	22	13	32	66	**13465M19**	**12,41**



VASOS TORX®

13425

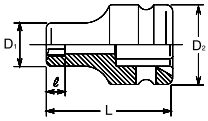
TORX®	D1	D2	ℓ	L	⚖	Ref Métrica	€
E4	9,7	19	4,6	32	44	**13425-4**	**7,13**
E5	10,2	19	5,2	32	43	**13425-5**	**7,13**
E6	10,7	19	5,4	32	44	**13425-6**	**7,13**
E7	11,2	19	6,6	32	44	**13425-7**	**7,13**
E8	11,7	19	7	32	44	**13425-8**	**7,13**
E10	12,2	19	8,2	32	42	**13425-10**	**7,13**
E12	14,2	19	9,3	32	43	**13425-12**	**7,13**
E14	17,2	19	10,6	32	44	**13425-14**	**7,13**
E16	18,2	19	11,8	32	42	**13425-16**	**7,13**



VASOS LHS

13401LH

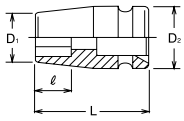
LH-S	D1	D2	ℓ	L	⚖	Ref Métrica	€
5S	11	19	5	32	32	**13401LH5S**	**13,86**
6S	12,3	19	5,6	32	34	**13401LH6S**	**13,86**
8S	16	19	6,8	32	36	**13401LH8S**	**13,86**
10S	18,5	22	8	32	50	**13401LH10S**	**13,86**
12S	22,3	22	9,2	32	58	**13401LH12S**	**14,96**
14S	24,8	22	10,4	32	63	**13401LH14S**	**16,07**
16S	28,5	22	11,6	32	77	**13401LH16S**	**17,30**



VASOS PARA TORNILLOS AUTORROSCANTES

13460M **13460A**

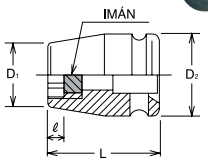
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	11,4	19	5	32	43	**13460M6**	**9,38**	**13460A1/4**	**9,39**
7		12,8	19	5	32	44	**13460M7**	**9,38**		
8		14,1	19	6	32	44	**13460M8**	**9,38**		
10	**3/8**	16,6	19	7	32	45	**13460M10**	**9,38**	**13460A3/8**	**9,39**
12		19	19,2	9	32	48	**13460M12**	**9,38**		
13	**1/2**	20,3	22	10	32	60	**13460M13**	**9,38**	**13460A1/2**	**10,78**



⬡ VASOS HEXAGONALES CON IMÁN PARA TORNILLOS AUTORROSCANTES

13460MG 13460AG

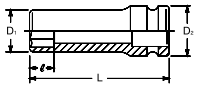
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	11,4	19	2,4	32	44	**13460MG6**	**14,69**	**13460AG1/4**	**15,32**
7		12,8	19	2,8	32	46	**13460MG7**	**14,98**		
8	**5/16**	14,1	19	3,5	32	48	**13460MG8**	**15,19**	**13460AG5/16**	**15,96**
10	**3/8**	16,6	19	4,2	33	54	**13460MG10**	**15,49**	**13460AG3/8**	**16,23**
13	**1/2**	20,3	22	6	34	81	**13460MG13**	**16,44**	**13460AG1/2**	**17,18**



⬡ VASOS HEXAGONALES MEDIANOS DE PARED DELGADA

13301X

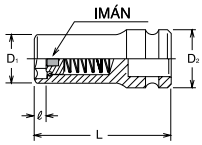
mm	D1	D2	ℓ	L	⚖	Ref	€
7	11	18,5	7	50	40	**13301X7**	**14,64**
8	12,3	18,5	8	50	40	**13301X8**	**14,64**
10	14,8	18,5	10	50	46	**13301X10**	**14,64**
11	16	18,5	11	50	49	**13301X11**	**14,64**
12	17,3	18,5	12	50	53	**13301X12**	**14,64**
13	18,5	21,5	13	50	67	**13301X13**	**14,64**
14	19,8	21,5	14	50	70	**13301X14**	**16,18**
15	21	21,5	15	50	75	**13301X15**	**16,18**
16	22,3	21,5	16	50	78	**13301X16**	**16,18**
17	23,5	21,5	17	50	82	**13301X17**	**16,18**
18	24,8	21,5	18	50	86	**13301X18**	**18,65**
19	26	21,5	19	50	93	**13301X19**	**19,16**
21	28,5	21,5	21	50	104	**13301X21**	**21,80**
22	29,8	21,5	22	50	110	**13301X22**	**21,80**
23	31	21,5	23	50	115	**13301X23**	**24,11**
24	32,3	21,5	24	50	120	**13301X24**	**24,11**



⬡ VASOS HEXAGONALES CON IMÁN CORREDIZO

13300XG

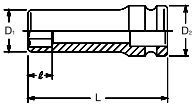
mm	D1	D2	ℓ	L	⚖	Ref	€
7	12	19	3,5	50	52	**13300XG7**	**27,57**
8	13,3	19	4	50	40	**13300XG8**	**27,57**
10	15,8	19	4,5	50	46	**13300XG10**	**46,06**
11	17	19	5	50	50	**13300XG11**	**46,06**
12	18,3	19	6	50	55	**13300XG12**	**46,06**
13	19,5	22	6,5	50	70	**13300XG13**	**48,51**
14	20,8	22	7	50	75	**13300XG14**	**51,12**



⬡ VASOS HEXAGONALES LARGOS

13300M 13300A

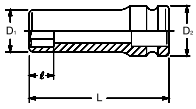
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	10,8	19	6	80	77	**13300M6**	**10,56**	**13300A1/4**	**10,56**
7		12	19	7	80	82	**13300M7**	**10,56**		
8	**5/16**	13,3	19	8	80	82	**13300M8**	**10,56**	**13300A5/16**	**10,56**
9		14,5	19	9	80	88	**13300M9**	**10,56**		
10	**3/8**	15,8	19	10	80	94	**13300M10**	**10,56**	**13300A3/8**	**10,56**
11	**7/16**	17	19	11	80	110	**13300M11**	**10,56**	**13300A7/16**	**10,56**
12		18,3	19	12	80	111	**13300M12**	**10,56**		
13	**1/2**	19,5	22	13	80	138	**13300M13**	**11,16**	**13300A1/2**	**10,68**
14	**9/16**	20,8	22	14	80	148	**13300M14**	**11,72**	**13300A9/16**	**11,73**
15		22	22	15	80	157	**13300M15**	**11,72**		
16	**5/8**	23,3	22	16	80	156	**13300M16**	**11,72**	**13300A5/8**	**11,73**
17	**11/16**	24,5	22	17	80	168	**13300M17**	**11,72**	**13300A11/16**	**11,73**
18		25,8	22	18	80	190	**13300M18**	**11,72**		
19	**3/4**	27	22	19	80	192	**13300M19**	**12,97**	**13300A3/4**	**10,78**
20		28,3	22	20	80	224	**13300M20**	**14,01**		
21	**13/16**	29,5	22	21	80	226	**13300M21**	**15,19**	**13300A13/16**	**15,19**
22	**7/8**	30,8	22	22	80	231	**13300M22**	**15,19**	**13300A7/8**	**15,64**
24		33,2	22	24	80	242	**13300M24**	**17,07**		



VASOS HEXAGONALES LARGOS DE PARED DELGADA

13301M 13301A

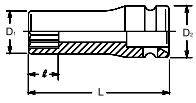
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	10	18,5	6	80	65	**13301M6**	**14,73**	**13301A1/4**	**15,61**
7		11	18,5	7	80	66	**13301M7**	**14,73**		
8	**5/16**	12.3	18,5	8	80	68	**13301M8**	**14,73**	**13301A5/16**	**15,61**
9		13,5	18,5	9	80	70	**13301M9**	**14,73**		
10	**3/8**	14,8	18,5	10	80	72	**13301M10**	**14,73**	**13301A3/8**	**15,61**
11	**7/16**	16	18,5	11	80	80	**13301M11**	**14,73**	**13301A7/16**	**15,61**
12		17,3	18,5	12	80	85	**13301M12**	**14,73**		
13	**1/2**	18,5	21,5	13	80	100	**13301M13**	**16,32**	**13301A1/2**	**17,17**
14	**9/16**	19,8	21,5	14	80	110	**13301M14**	**16,32**	**13301A9/16**	**17,17**
15		21	21,5	15	80	120	**13301M15**	**16,32**		
16	**5/8**	22,3	21,5	16	80	130	**13301M16**	**16,32**	**13301A5/8**	**17,17**
17	**11/16**	23,5	21,5	17	80	136	**13301M17**	**16,32**	**13301A11/16**	**17,17**
18		24,8	21,5	18	80	145	**13301M18**	**16,32**		
19	**3/4**	26	21,5	19	80	155	**13301M19**	**19,34**	**13301A3/4**	**20,28**
20		27,3	21,5	20	80	170	**13301M20**	**19,34**		
21	**13/16**	28,5	21,5	21	80	181	**13301M21**	**20,53**	**13301A13/16**	**21,70**
22	**7/8**	29,8	21,5	22	80	190	**13301M22**	**21,97**	**13301A7/8**	**23,04**
24		32,3	21,5	24	80	216	**13301M24**	**21,97**		



VASOS BIHEXAGONALES LARGOS

13305M

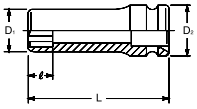
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
8	13,3	19	8	80	82	**13305M8**	**14,75**
10	15,8	19	10	80	94	**13305M10**	**14,75**
11	17	19	11	80	110	**13305M11**	**14,75**
12	18,3	19	12	80	111	**13305M12**	**14,75**
13	19,5	22	13	80	138	**13305M13**	**16,32**
14	20,8	22	14	80	148	**13305M14**	**16,32**
17	24,5	22	17	80	168	**13305M17**	**16,32**



VASOS SURFACE DRIVE (DE CONTACTO CURVO) LARGOS

13310M

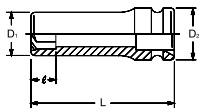
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
7	12	19	7	80	77	**13310M7**	**12,86**
8	13,3	19	8	80	82	**13310M8**	**12,86**
9	14,5	19	9	80	90	**13310M9**	**12,86**
10	15,8	19	10	80	94	**13310M10**	**12,86**
11	17	19	11	80	110	**13310M11**	**12,86**
12	18,3	19	12	80	111	**13310M12**	**12,86**
13	19,5	22	13	80	138	**13310M13**	**14,04**
14	20,8	22	14	80	148	**13310M14**	**14,04**
15	22	22	15	80	160	**13310M15**	**14,04**
16	23,3	22	16	80	156	**13310M16**	**14,26**
17	24,5	22	17	80	168	**13310M17**	**16,58**
18	25,8	22	18	80	190	**13310M18**	**16,58**
19	27	22	19	80	190	**13310M19**	**16,58**



VASOS PATHFINDER (GUÍA) LARGOS

13365M

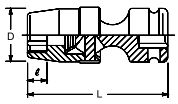
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
8	13,3	19	8	80	82	**13365M8**	**16,91**
10	15,8	19	10	80	94	**13365M10**	**16,91**
11	17	19	11	80	110	**13365M11**	**16,91**
12	18,3	19	12	80	111	**13365M12**	**16,91**
13	19,5	22	13	80	138	**13365M13**	**17,51**
14	20,8	22	14	80	148	**13365M14**	**17,51**
15	22	22	11	80	150	**13365M15**	**17,51**
16	23,3	22	11	80	159	**13365M16**	**17,51**
17	24,5	22	17	80	168	**13365M17**	**17,51**
18	25,8	22	18	80	190	**13365M18**	**18,48**
19	27	22	19	80	190	**13365M19**	**18,48**



VASOS CON ARTICULACIÓN UNIVERSAL

13440M 13440A

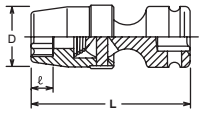
mm	pulgadas	D	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
10	**3/8**	15,8	5	57	115	**13440M10**	**38,41**	**13440A3/8**	**40,32**
11	**7/16**	17	6	57	115	**13440M11**	**38,41**	**13440A7/16**	**40,32**
12		18,3	6	57	115	**13440M12**	**38,41**		
13	**1/2**	19,5	6	57	115	**13440M13**	**38,41**	**13440A1/2**	**40,32**
14	**9/16**	20,8	7	59	120	**13440M14**	**38,41**	**13440A9/16**	**40,32**
15		22	7	59	120	**13440M15**	**38,41**		
16	**5/8**	23,3	8	59	120	**13440M16**	**38,41**	**13440A5/8**	**40,32**
17	**11/16**	24,5	8	59	120	**13440M17**	**38,41**	**13440A11/16**	**40,32**
18		25,8	9	61	126	**13440M18**	**38,41**		
19	**3/4**	27	10	61	130	**13440M19**	**38,41**	**13440A3/4**	**40,32**
20		29,5	10	61	135	**13440M20**	**42,11**		
21		30,7	14	66	175	**13440M21**	**42,11**		
22		32	13	66	185	**13440M22**	**42,11**		
24		34,5	13	68	190	**13440M34**	**42,11**		



VASOS TORX® CON ARTICULACIÓN UNIVERSAL

13440T

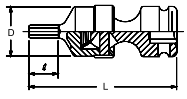
TORX®	D	ℓ	L	⚖	Ref	€
E10	13,3	8,2	58	115	**13440T10**	**39,54**
E12	15,8	9,3	58	115	**13440T12**	**39,54**
E14	17	10,6	58	115	**13440T14**	**39,54**



VASOS INHEX CON ARTICULACIÓN UNIVERSAL

13430M

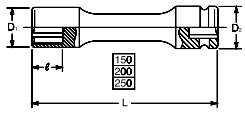
mm	D	ℓ	L	⚖	Ref	€
5	24	15	74	120	**13430M5**	**41,62**
6	24	15	74	131	**13430M6**	**41,62**
8	24	20	74	136	**13430M8**	**41,62**
10	24	20	74	141	**13430M10**	**41,62**
17	24	7	53	150	**13430M17**	**41,62**



VASOS EXTRA LARGOS

13145M-150/-200/-250

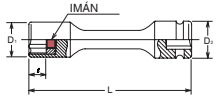
mm	D1	D2	ℓ	⚖			Ref	L150	€	L200	€	L250	€
				150	200	250							
6	10,8	19	6	105	136	167	**13145M**	**150-6**	**30,51**	**200-6**	**33,79**	**250-6**	**34,63**
8	13,3	19	8	110	141	172	**13145M**	**150-8**	**30,51**	**200-8**	**33,79**	**250-8**	**34,63**
10	15,8	19	10	120	151	182	**13145M**	**150-10**	**30,51**	**200-10**	**33,79**	**250-10**	**34,63**
12	18,3	19	12	128	159	190	**13145M**	**150-12**	**30,51**	**200-12**	**33,79**	**250-12**	**34,63**
13	19,5	19	13	137	168	199	**13145M**	**150-13**	**31,13**	**200-13**	**33,79**	**250-13**	**36,84**
14	20,8	19	14	146	177	208	**13145M**	**150-14**	**31,13**	**200-14**	**33,79**	**250-14**	**36,84**
15	22	19	15	155	186	217	**13145M**	**150-15**	**31,13**	**200-15**	**33,79**	**250-15**	**36,84**
17	24,5	19	17	163	194	225	**13145M**	**150-17**	**31,13**	**200-17**	**33,79**	**250-17**	**36,84**



VASOS EXTRA LARGOS MAGNÉTICOS

13145MG-100/-150/-200

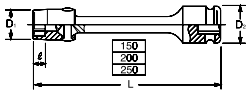
mm	D1	D2	⚖			Ref	L100	€	L150	€	L200	€
			100	150	200							
8	13,3	19	90			**13145MG**	**100-8**	**38,40**				
10	15,8	19	93	125	182	**13145MG**	**100-10**	**38,40**	**150-10**	**44,73**	**200-10**	**46,14**
12	18,3	19	105	136	190	**13145MG**	**100-12**	**39,50**	**150-12**	**45,49**	**200-12**	**46,14**
13	19,5	19	115	145	208	**13145MG**	**100-13**	**42,47**	**150-13**	**47,22**	**200-13**	**49,00**
14	20,8	19	120	150	225	**13145MG**	**100-14**	**42,47**	**150-14**	**47,22**	**200-14**	**49,00**



VASOS EXTRA LARGOS ARTICULADOS

13146M-150/-200/-250

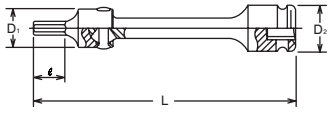
mm	D1	D2	ℓ	⚖			Ref	Ref L150	€	Ref L200	€	Ref L250	€
				150	200	250							
8	12	19	6	128	159	190	**13146M**	**150-8**	**61,33**	**200-8**	**64,44**	**250-8**	**65,46**
10	14,3	19	7	131	162	193	**13146M**	**150-10**	**61,33**	**200-10**	**64,44**	**250-10**	**65,46**
12	18	19	8	133	164	195	**13146M**	**150-12**	**61,33**	**200-12**	**64,44**	**250-12**	**65,46**
13	19,3	19	8,5	132	163	194	**13146M**	**150-13**	**61,33**	**200-13**	**64,44**	**250-13**	**65,46**
14	20	19	9	132	163	194	**13146M**	**150-14**	**61,33**	**200-14**	**64,44**	**250-14**	**65,46**



VASOS EXTRA LARGOS ARTICULADOS PUNTA HEXAGONAL

13147M-150/-200

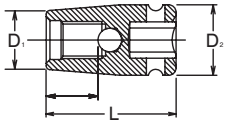
mm	D1	D2	ℓ	⚖		Ref L150	€	Ref L200	€
				150	200				
4	21	19	15	125	156	**13147M150-4**	**67,22**	**13147M200-4**	**71,25**
5	21	19	15	128	159	**13147M150-5**	**67,22**	**13147M200-5**	**71,25**
6	21	19	15	132	163	**13147M150-6**	**67,22**	**13147M200-6**	**71,25**
8	21	19	15	136	167	**13147M150-8**	**67,22**	**13147M200-8**	**71,25**
10	21	19	15	140	171	**13147M150-10**	**67,22**	**13147M200-10**	**71,25**



EXTRACTOR DE ESPÁRRAGOS

13103M

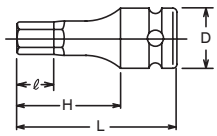
mm	D1	D2	ℓ	L	⚖	Ref	€
5 (0,8)	9,5	19	8	32	39	**13103M5**	**15,21**
6 (1,0)	10,8	19	9	32	41	**13103M6**	**15,21**
7 (1,0)	12,5	19	10	32	44	**13103M7**	**15,21**
8 (1,25)	13,5	19	10,5	32	49	**13103M8**	**15,21**
10 (1,25)	15,8	19	13	32	49	**13103M10x1,25**	**15,21**
10 (1,5)	15,8	19	13	32	49	**13103M10x1,5**	**15,21**



VASOS CON PUNTA HEXAGONAL

13012M

mm	D	ℓ	L	⚖	Ref	€
3	18	10	52	33	**13012M52-3**	**16,44**
4	18	15,5	52	35	**13012M52-4**	**16,44**
5	18	15,5	52	35	**13012M52-5**	**16,44**
6	18	15,5	52	39	**13012M52-6**	**16,44**
7	18	15,5	52	44	**13012M52-7**	**17,23**
8	21	15,5	52	60	**13012M52-8**	**17,23**
10	21	15,5	52	70	**13012M52-10**	**17,23**
12	21	15,5	52	79	**13012M52-12**	**18,69**
14	21	15,5	52	92	**13012M52-14**	**21,98**



JUEGO DE VASOS EN REGLETA

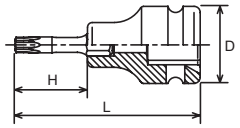
RS13012M/8-L52

Ref	Tipo		⚖			€
RS13012M/8-L52	◉ **13012M**	200	492	8	4, 5, 6, 7, 8, 10, 12, 14	**142,78**

VASOS CON PUNTA TORX®

13025-50/-90

TORX®	D	⚖		Ref L50	€	Ref L90	€
		50	90				
T20	19	35	43	**13025-50T20**	**17,85**	**13025-90T20**	**21,41**
T25	19	35	45	**13025-50T25**	**17,85**	**13025-90T25**	**21,41**
T27	19	35	47	**13025-50T27**	**17,85**	**13025-90T27**	**21,41**
T30	19	35	50	**13025-50T30**	**17,85**	**13025-90T30**	**21,41**
T40	19	39	58	**13025-50T40**	**17,85**	**13025-90T40**	**21,41**
T45	19	60	66	**13025-50T45**	**17,85**	**13025-90T45**	**21,41**
T50	19	70	80	**13025-50T50**	**19,81**	**13025-90T50**	**23,00**
T55	22	79	120	**13025-50T55**	**22,74**	**13025-90T55**	**27,24**



JUEGO DE VASOS EN REGLETA

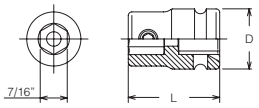
RS13025/8-L50

Ref	Tipo		⚖			€
RS13025/8-L50	**13025**	200	380	8	T20, T25, T27, T30, T40, T45, T50, T55	**150,83**

PORTA PUNTA

13134

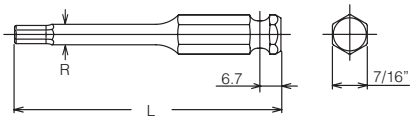
Ref	L	⚖	€
13134	32	70	**12,16**



PUNTA PARA TORNILLOS INHEX

183H-35

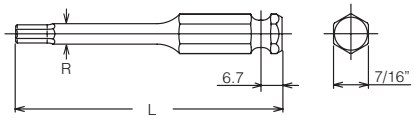
pulgadas	L	⚖	Ref	€
3/16	35	15	**183H353/16**	**6,40**
7/32	35	16	**183H357/32**	**6,40**
1/4	35	18	**183H351/4**	**6,40**
5/16	35	20	**183H355/16**	**6,81**
3/8	35	26	**183H353/8**	**6,81**
7/16	35	28	**183H357/16**	**7,01**
1/2	35	38	**183H351/2**	**9,69**



PUNTA PARA TORNILLOS INHEX

183H-35/-75/-150

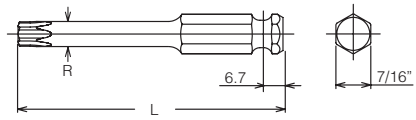
mm	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
3	15	34		**183H-35 3**	**6,42**	**183H-75 3**	**9,48**		
4	15	35	51	**183H-35 4**	**6,42**	**183H-75 4**	**9,48**	**183H-150 4**	**10,14**
5	15	36	55	**183H-35 5**	**6,42**	**183H-75 5**	**9,48**	**183H-150 5**	**10,14**
6	18	39	65	**183H-35 6**	**6,42**	**183H-75 6**	**9,48**	**183H-150 6**	**10,14**
7	19	44		**183H-35 7**	**6,88**	**183H-75 7**	**9,48**		
8	20	47	87	**183H-35 8**	**6,88**	**183H-75 8**	**9,48**	**183H-150 8**	**10,14**
10	26	57	118	**183H-35 10**	**6,88**	**183H-75 10**	**9,48**	**183H-150 10**	**10,14**
11	28	60		**183H-35 11**	**8,78**	**183H-75 11**	**13,76**		
12	30	65	136	**183H-35 12**	**8,78**	**183H-75 12**	**9,48**	**183H-150 12**	**14,66**
14	35	79		**183H-35 14**	**8,78**	**183H-75 14**	**15,19**		
16	47			**183H-35 16**	**8,78**				
17	50			**183H-35 17**	**8,78**				
18	53			**183H-35 18**	**11,48**				
19	56			**183H-35 19**	**11,48**				



PUNTAS TORX

183T-35/-75/-150 (T)

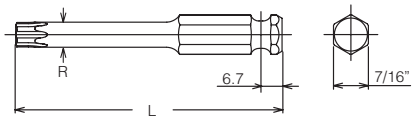
TORX®	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
T25	18			**183T35-25**	**8,41**				
T30	18	35	50	**183T35-30**	**8,41**	**183T75-30**	**11,12**	**183T150-30**	**15,12**
T40	20	37	58	**183T35-40**	**8,41**	**183T75-40**	**11,12**	**183T150-40**	**15,12**
T45	22	41	70	**183T35-45**	**8,41**	**183T75-45**	**11,12**	**183T150-45**	**15,12**
T50	26	45	82	**183T35-50**	**8,61**	**183T75-50**	**11,12**	**183T150-50**	**15,12**
T55	30	55	113	**183T35-55**	**8,61**	**183T75-55**	**11,12**	**183T150-55**	**15,12**
T60	38	67		**183T35-60**	**10,79**	**183T75-60**	**12,06**		



PUNTAS TORX PLUS

183T-35/-75 (IP)

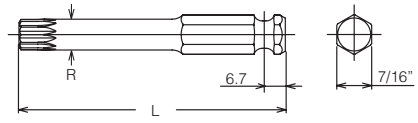
TORX®	⚖		Ref L35	€	Ref L75	€
	35	75				
30IP	18	35	**183T35-30IP**	**11,97**	**183T75-30IP**	**9,12**
40IP	20	37	**183T35-40IP**	**11,97**	**183T75-40IP**	**9,12**
45IP	22	41	**183T35-45IP**	**11,97**	**183T75-45IP**	**9,12**
50IP	26	45	**183T35-50IP**	**11,97**	**183T75-50IP**	**9,12**
55IP	30	56	**183T35-55IP**	**11,97**	**183T75-55IP**	**9,12**
60IP	38	67	**183T35-60IP**	**12,98**	**183T75-60IP**	**14,82**



PUNTAS XZN

183X-35/-75/-150 (XZN)

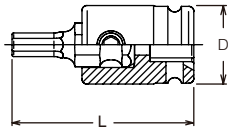
mm	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
M4	18	34		**183X35M4**	**8,65**	**183X75M4**	**11,76**		
M5	18	34	50	**183X35M5**	**8,65**	**183X75M5**	**11,76**	**183X150M5**	**12,67**
M6	20	36	53	**183X35M6**	**8,65**	**183X75M6**	**11,76**	**183X150M6**	**12,67**
M8	22	39	64	**183X35M8**	**8,65**	**183X75M8**	**11,76**	**183X150M8**	**15,79**
M10	26	54	93	**183X35M10**	**10,40**	**183X75M10**	**12,14**	**183X150M10**	**15,79**
M12	30	57	121	**183X35M12**	**15,46**	**183X75M12**	**17,91**	**183X150M12**	**19,23**
M14	38	67		**183X35M14**	**16,54**	**183X75M14**	**18,65**		



VASOS CON PUNTA HEXAGONAL

13134M-52/-92

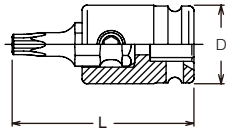
mm	D	⚖ 52	⚖ 92	Ref L52	€	Ref L92	€
3	22	85	104	**13134M52-3**	**20,25**	**13134M92-3**	**20,62**
4	22	85	105	**13134M52-4**	**20,25**	**13134M92-4**	**20,62**
5	22	85	106	**13134M52-5**	**20,66**	**13134M92-5**	**21,84**
6	22	88	109	**13134M52-6**	**20,66**	**13134M92-6**	**21,84**
8	22	90	117	**13134M52-8**	**21,16**	**13134M92-8**	**21,84**
10	22	96	127	**13134M52-10**	**21,16**	**13134M92-10**	**21,84**
12	22	100	135	**13134M52-12**	**21,16**	**13134M92-12**	**21,84**
14	22	105	149	**13134M52-14**	**21,16**	**13134M92-14**	**22,57**



VASOS CON PUNTA TORX®

13134T-52/-92 (T)

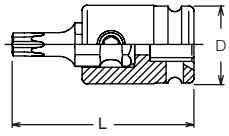
TORX®	D	⚖ 52	⚖ 92	Ref L52	€	Ref L92	€
T30	22	88	105	**13134T-52T30**	**22,68**	**13134T-92T30**	**23,97**
T40	22	90	107	**13134T-52T40**	**22,68**	**13134T-92T40**	**23,97**
T45	22	92	111	**13134T-52T45**	**22,68**	**13134T-92T45**	**23,97**
T50	22	96	115	**13134T-52T50**	**22,68**	**13134T-92T50**	**23,97**
T55	22	100	125	**13134T-52T55**	**22,68**	**13134T-92T55**	**23,97**
T60	22	108	137	**13134T-52T60**	**22,68**	**13134T-92T60**	**23,97**



VASOS CON PUNTA TORX® PLUS

13134T-52/-92 (IP)

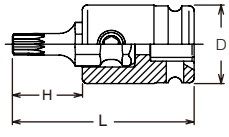
TORX®	D	⚖ 52	⚖ 92	Ref L52	€	Ref L92	€
30IP	22	88	105	**13134T52-30IP**	**17,74**	**13134T92-30IP**	**18,97**
40IP	22	90	107	**13134T52-40IP**	**17,74**	**13134T92-40IP**	**18,97**
45IP	22	92	111	**13134T52-45IP**	**17,74**	**13134T92-45IP**	**18,97**
50IP	22	96	115	**13134T52-50IP**	**18,05**	**13134T92-50IP**	**18,97**
55IP	22	100	126	**13134T52-55IP**	**18,05**	**13134T92-55IP**	**18,97**
60IP	22	108	139	**13134T52-60IP**	**22,79**	**13134T92-60IP**	**24,49**



VASOS CON PUNTA XZN

13134X-52/-92 (XZN)

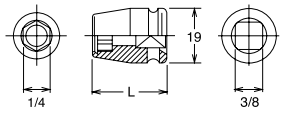
XZN	D	⚖ 52	⚖ 92	Ref L52	€	Ref L92	€
M5	22	88	104	**13134X-52M5**	**18,40**	**13134X-92M5**	**19,61**
M6	22	90	106	**13134X-52M6**	**18,40**	**13134X-92M6**	**19,61**
M8	22	92	109	**13134X-52M8**	**18,40**	**13134X-92M8**	**19,61**
M10	22	96	124	**13134X-52M10**	**18,79**	**13134X-92M10**	**19,73**
M12	22	100	129	**13134X-52M12**	**21,73**	**13134X-92M12**	**23,54**
M14	22	108	139	**13134X-52M14**	**22,42**	**13134X-92M14**	**24,34**



PORTA PUNTA

13139

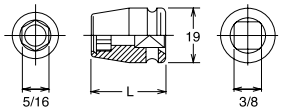
Ref	L	⚖	€
13139	30	32	**13,60**



○ PORTA PUNTA

13140

Ref	L	⚖	€
13140	30	32	**13,60**



ALARGADERAS

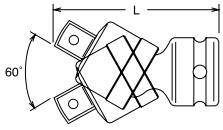
13760

Ref	L	⚖	€
13760-50P	50	70	**15,66**
13760-75P	75	95	**17,02**
13760-100P	100	115	**18,02**
13760-125P	125	140	**20,90**
13760-150P	150	165	**22,90**
13760-200P	200	215	**26,15**
13760-250P	250	260	**27,49**

ARTICULACIÓN UNIVERSAL

13770P

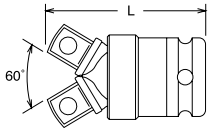
Ref	L	⚖	€
13770P	56	110	**38,41**



ARTICULACIÓN UNIVERSAL

13771P

Ref	L	⚖	€
13771P	48	92	**28,59**



ADAPTADOR

13322A-P

Ref	L	⚖	€
13322A-P	25	25	**15,32**

⚠

凹3/8"x 凸1/4"

ADAPTADOR

13344A-P

Ref	L	⚖	€
13344A-P	32,5	53	**14,58**

凹3/8"x 凸1/2"

⌨ ○ JUEGO DE VASOS

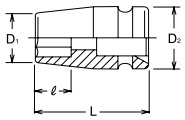
13241M

Ref	⌨	⚖	▦	▮▮▮	€
13241M	240 x 30 x 35	800	11	9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	**78,78**

○ VASOS HEXAGONALES

14400M 14400A

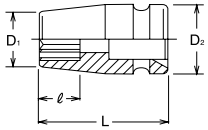
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
	1/4	12	25	5	38	80			14400A1/4	7,36
8	5/16	14,5	25	6	38	85	14400M8	7,36	14400A5/16	9,38
9		15,7	25	7	38	85	14400M9	7,36		
10	3/8	17	25	7	38	85	14400M10	7,36	14400A3/8	7,36
11	7/16	18,2	25	8	38	85	14400M11	7,36	14400A7/16	7,36
12		19,5	25	9	38	85	14400M12	7,36		
13	1/2	20,7	25	10	38	85	14400M13	7,36	14400A1/2	7,36
14	9/16	22	25	10	38	85	14400M14	7,36	14400A9/16	7,36
15	19/32	23,2	30	11	38	130	14400M15	8,17	14400A19/32	
16	5/8	24,5	30	11	38	130	14400M16	8,17	14400A5/8	8,17
17	11/16	25,7	30	12	38	13	14400M17	8,17	14400A11/16	8,17
18		27	30	13	38	130	14400M18	8,17		
19	3/4	28,2	30	13	38	125	14400M19	8,17	14400A3/4	8,17
20		29,5	30	13	38	127	14400M20	9,30		
21	13/16	30,7	30	14	38	120	14400M21	9,30	14400A13/16	9,30
22	7/8	32	30	14	38	130	14400M22	9,59	14400A7/8	9,59
23		33,2	30	14	38	130	14400M23	10,66		
24	15/16	34,5	30	14	38	135	14400M24	10,66	14400A15/16	10,66
25	1	35,7	30	14	38	135	14400M25	10,66	14400A1	11,43
26		37	30	14	38	160	14400M26	11,43		
27	1-1/16	38,2	30	16	40	160	14400M27	14,36	14400A1-1/16	11,43
28		39,5	30	16	40	170	14400M28	14,36		
29	1-1/8	40,7	30	17	42	190	14400M29	15,00	14400A1-1/8	15,00
30	1-3/16	42	30	17	42	190	14400M30	14,97	14400A1-3/16	14,97
31		43,2	30	17	42	213	14400M31	15,00		
32	1-1/4	44,5	30	18	42	216	14400M32	15,27	14400A1-1/4	15,27
33	1-5/16	45,7	30	19	46	260	14400M33	19,28	14400A1-5/16	22,33
34	1-3/8	47	30	19	46	263	14400M34	22,33	14400A1-3/8	23,40
35		48,2	30	19	46	275	14400M35	23,40		
36		49,5	30	20	46	285	14400M36	23,40		
38	1-1/2	52	30	20	53	360	14400M38	24,96		
41		55,7	30	21	55	411	14400M41	40,01		



○ VASOS BIHEXAGONALES

14405M 14405A

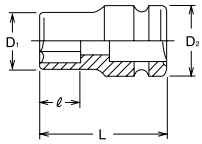
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
8	5/16	14,5	25	6	38	85	14405M8	8,93	14405A5/16	
9		15,7	25	7	38	85	14405M9	8,93		
10	3/8	17	25	7	38	85	14405M10	8,93	14405A3/8	9,38
11	7/16	18,2	25	8	38	85	14405M11	8,93	14405A7/16	9,38
12		19,5	25	9	38	85	14405M12	8,93		
13	1/2	20,7	25	10	38	85	14405M13	8,93	14405A1/2	9,38
14	9/16	22	25	10	38	85	14405M14	8,93	14405A9/16	9,38
15		23,2	30	11	38	130	14405M15	10,17		
16	5/8	24,5	30	11	38	130	14405M16	10,17	14405A5/8	10,79
17	11/16	25,7	30	12	38	13	14405M17	10,96	14405A11/16	10,79
18		27	30	13	38	130	14405M18	10,96		
19	3/4	28,2	30	13	38	125	14405M19	12,16	14405A3/4	12,16
20		29,5	30	13	38	127	14405M20	10,17		
21	13/16	30,7	30	14	38	120	14405M21	12,16	14405A13/16	12,16
22	7/8	32	30	14	38	130	14405M22	12,16	14405A7/8	12,16
23		33,2	30	14	38	130	14405M23	12,19		
24	15/16	34,5	30	14	38	135	14405M24	13,14	14405A15/16	13,16
	1	35,7	30	14	38	135			14405A1	13,16
26		37	30	14	38	160	14405M26	14,01		
27	1-1/16	38,2	30	16	40	160	14405M27	17,87	14405A1-1/16	13,16
28		39,5	30	16	40	170	14405M28	20,49		
	1-1/8	40,7	30	17	42	190			14405A1-1/8	13,44
30	1-3/16	42	30	17	42	190	14405M30	21,41	14405A1-3/16	14,83
32	1-1/4	44,5	30	18	42	216	14405M32	21,41	144051A1-1/4	16,50
	1-5/16	45,7	30	19	46	260			14405A1-5/16	24,16
	1-3/8	47	30	19	46	263			14405A1-3/8	24,64
36		49,5	30	20	46	285	14405M36	33,86		
	1-1/2	52	30	20	53	360			14405A1-1/2	47,42
41		55,7	30	20	55	411	14405M41	36,02		



○ VASOS HEXAGONALES DE PARED DELGADA

14401M 14401A

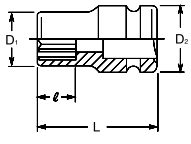
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
	1/4								14401A1/4	10,47
8	5/16	13	24	6	38	57	14401M8	10,47	14401A5/16	10,47
9		14,2	24	7	38	58	14401M9	10,47		
10	3/8	15,5	24	7	38	60	14401M10	10,47	14401A3/8	10,75
11	7/16	16,7	24	8	38	62	14401M11	10,47	14401A7/16	10,75
12		18	24	9	38	63	14401M12	10,47		
13	1/2	19,2	24	10	38	65	14401M13	14,36	14401A1/2	14,36
14	9/16	20,5	24	10	38	67	14401M14	14,36	14401A9/16	14,36
15		21,7	29	11	38	100	14401M15	14,36		
16	5/8	23	29	11	38	102	14401M16	15,90	14401A5/8	15,90
17	11/16	24,2	29	12	38	105	14401M17	15,90	14401A11/16	15,90
18		25,5	29	13	38	105	14401M18	15,90		
19	3/4	26,7	29	13	38	107	14401M19	15,90	14401A3/4	15,90
20		28	29	13	38	108	14401M20	20,04		
21	13/16	29,2	29	14	38	109	14401M21	20,51	14401A13/16	20,51
22	7/8	30,5	29	14	38	114	14401M22	21,55	14401A7/8	
23		31,7	29	14	38	118	14401M23	22,03		
24	15/16	33	29	14	38	122	14401M24	24,61	14401A15/16	24,61
25	1	34,2	29	14	38	129	14401M25	24,61	14401A1	24,61
26		35,5	29	14	38	131	14401M26	26,38		
27	1-1/16	36,7	29	16	40	145	14401M27	33,17	14401A1-1/16	33,17
28		38	29	16	40	152	14401M28	33,17		
29	1-1/8	39,2	29	17	42	165	14401M29	34,64	14401A1-1/8	34,64
30	1-3/16	40,5	29	17	42	178	14401M30	34,64	14401A1-3/16	34,64
31		41,7	29	17	42	185	14401M31	34,64		
32	1-1/4	43	29	18	42	188	14401M32	35,20	14401A1-1/4	35,19
33	1-5/16	44,2	29	19	46	219	14401M33	44,47	14401A1-5/16	44,47
34	1-3/8	45,5	29	19	46	248	14401M34	51,54	14401A1-3/8	51,54
35		46,7	29	19	46	250	14401M35	54,00		
36		48	29	20	46	264	14401M36	54,00		
38		50,5	29	20	53	316	14401M38	54,00		
41		54,2	29	21	55	374	14401M41	54,00		



○ VASOS BIHEXAGONALES DE PARED DELGADA

14406M 14406A

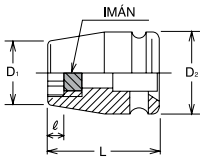
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
	1/4								14406A1/4	10,47
8	5/16	13	24	6	38	57	14406M8	10,47	14406A5/16	10,47
9		14,2	24	7	38	58	14406M9	10,47		
10	3/8	15,5	24	7	38	60	14406M10	10,47	14406A3/8	10,75
11	7/16	16,7	24	8	38	62	14406M11	10,47	14406A7/16	10,75
12		18	24	9	38	63	14406M12	10,47		
13	1/2	19,2	24	10	38	65	14406M13	14,36	14406A1/2	14,36
14	9/16	20,5	24	10	38	67	14406M14	14,36	14406A9/16	14,36
15		21,7	29	11	38	100	14406M15	14,36		
16	5/8	23	29	11	38	102	14406M16	15,90	14406A5/8	15,90
17	11/16	24,2	29	12	38	105	14406M17	15,90	14406A11/16	15,90
18		25,5	29	13	38	105	14406M18	15,90		
19	3/4	26,7	29	13	38	107	14406M19	15,90	14406A3/4	15,90
20		28	29	13	38	108	14406M20	20,04		
21	13/16	29,2	29	14	38	109	14406M21	20,51	14406A13/16	20,51
22	7/8	30,5	29	14	38	114	14406M22	21,55	14406A7/8	
23		31,7	29	14	38	118	14406M23	22,03		
24	15/16	33	29	14	38	122	14406M24	24,61	14406A15/16	24,61
25	1	34,2	29	14	38	129	14406M25	24,61	14406A1	24,61
26		35,5	29	14	38	131	14406M26	26,38		
27	1-1/16	36,7	29	16	40	145	14406M27	33,17	14406A1-1/16	33,17
28		38	29	16	40	152	14406M28	33,17		
29	1-1/8	39,2	29	17	42	165	14406M29	34,64	14406A1-1/8	34,64
30	1-3/16	40,5	29	17	42	178	14406M30	34,64	14406A1-3/16	34,64
31		41,7	29	17	42	185	14406M31	34,64		
32	1-1/4	43	29	18	42	188	14406M32	35,20	14406A1-1/4	35,19
33	1-5/16	44,2	29	19	46	219	14406M33	44,47	14406A1-5/16	44,47
34	1-3/8	45,5	29	19	46	248	14406M34	51,54	14406A1-3/8	51,54
36		48	29	20	46	264	14406M36	54,00		



⬡ VASOS HEXAGONALES CON IMÁN

14400MG

mm	D1	D2	ℓ	L	⚖	Ref	€
8	14,5	25	3,5	38	95	**14400MG8**	**13,98**
10	17	25	4,2	38	95	**14400MG10**	**18,71**
12	19,5	25	5,6	38	100	**14400MG12**	**18,71**
13	20,7	25	6	38	100	**14400MG13**	**18,70**
14	22	25	6,4	38	105	**14400MG14**	**18,70**
15	23,2	30	6,8	38	140	**14400MG15**	**20,67**
16	24,5	30	7	38	145	**14400MG16**	**20,66**
17	25,7	30	7,5	38	145	**14400MG17**	**20,66**
18	27	30	7,8	38	147	**14400MG18**	**20,66**
19	28,2	30	8	38	147	**14400MG19**	**20,66**
21	30,7	30	8	38	165	**14400MG21**	**31,34**

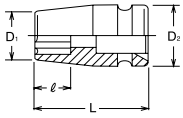


Patentado

⬡ VASOS SURFACE DRIVE (DE CONTACTO CURVO)

14410M

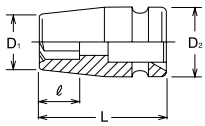
mm	D1	D2	ℓ	L	⚖	Ref	€
8	13	24	6	38	57	**14410M8**	**9,09**
9	14,2	24	7	38	58	**14410M9**	**9,09**
10	15,5	24	7	38	60	**14410M10**	**9,09**
11	16,7	24	8	38	62	**14410M11**	**9,09**
12	18	24	9	38	63	**14410M12**	**9,09**
13	19,2	24	10	38	65	**14410M13**	**8,84**
14	20,5	24	10	38	67	**14410M14**	**8,84**
15	21,7	29	11	38	100	**14410M15**	**9,66**
16	23	29	11	38	102	**14410M16**	**12,66**
17	24,2	29	12	38	105	**14410M17**	**12,66**
18	25,5	29	13	38	105	**14410M18**	**12,66**
19	26,7	29	13	38	107	**14410M19**	**12,66**
20	28	29	13	38	108	**14410M20**	**13,93**
21	29,2	29	14	38	109	**14410M21**	**13,93**
22	30,5	29	14	38	114	**14410M22**	**13,93**
24	33	29	14	38	122	**14410M24**	**12,42**
25	34,2	29	14	38	129	**14410M25**	**14,37**
26	35,5	29	14	38	131	**14410M26**	**13,97**
27	36,7	29	16	40	145	**14410M27**	**14,37**
28	38	29	16	40	152	**14410M28**	**16,44**
29	39,2	29	17	42	165	**14410M29**	**16,44**
30	40,5	29	17	42	178	**14410M30**	**16,44**
31	41,7	29	17	42	185	**14410M31**	**16,91**
32	43	29	18	42	188	**14410M32**	**18,31**
34	45,5	29	19	46	248	**14410M34**	**28,56**
36	48	29	20	46	264	**14410M36**	**30,14**



⬡ VASOS PATHFINDER (GUÍA)

14465M

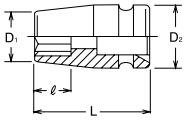
mm	D1	D2	ℓ	L	⚖	Ref	€
10	17	25	8	38	89	**14465M10**	**13,16**
11	18,2	25	8	38	87	**14465M11**	**13,16**
12	19,5	25	9	38	87	**14465M12**	**13,16**
13	20,7	25	9	38	86	**14465M13**	**13,16**
14	22	25	11	38	86	**14465M14**	**13,16**
15	23,2	30	11	38	131	**14465M15**	**14,69**
16	24,5	30	11	38	131	**14465M16**	**14,69**
17	25,7	30	12	38	132	**14465M17**	**14,69**
18	27	30	13	38	128	**14465M18**	**14,69**
19	28,2	30	13	38	128	**14465M19**	**14,69**
20	29,5	30	14	38	125	**14465M20**	**14,69**
21	30,7	30	14	38	128	**14465M21**	**15,49**
22	32	30	15	38	130	**14465M22**	**15,49**
23	33,2	30	15	38	135	**14465M23**	**15,49**
24	34,5	30	15	38	135	**14465M24**	**15,49**
26	37	30	15	38	152	**14465M26**	**16,98**
27	38,2	30	16	38	169	**14465M27**	**16,98**



VASOS OCTOGONALES

14415M

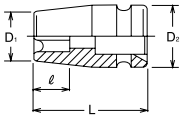
mm	D1	D2	ℓ	L	⚖	Ref	€
14	25,7	30	10	38	138	**14415M14**	**15,20**
15	27	30	11	38	145	**14415M15**	**15,20**
16	29,5	30	11	38	150	**14415M16**	**15,20**
17	30,7	30	12	38	155	**14415M17**	**15,20**
18	32	30	13	38	165	**14415M18**	**15,20**
19	33,2	30	14	38	170	**14415M19**	**15,20**
22	38,2	30	14	40	185	**14415M22**	**18,14**
24	42	30	14	42	215	**14415M24**	**19,88**
27	45,7	30	16	46	278	**14415M27**	**32,39**
28	47	30	16	46	285	**14415M28**	**40,18**
29	49,5	30	17	46	326	**14415M29**	**40,80**



VASOS TORX®

14425

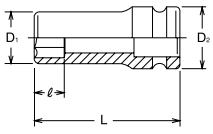
TORX®	D1	D2	ℓ	L	⚖	Ref Métrica	€
E10	14,2	25	8,2	38	86	**14425E10**	**8,57**
E11	14,7	25	8,7	38	86	**14425E11**	**8,57**
E12	15,2	25	9,3	38	85	**14425E12**	**8,57**
E14	18,2	25	10,6	38	88	**14425E14**	**8,57**
E16	19,2	25	11,8	38	88	**14425E16**	**8,57**
E18	22,2	25	13	40	89	**14425E18**	**8,57**
E20	24,2	30	14,4	40	134	**14425E20**	**10,52**
E22	26,2	30	15,5	40	140	**14425E22**	**11,07**
E24	28,2	30	17	42	138	**14425E24**	**13,17**



VASOS HEXAGONALES MEDIANOS DE PARED DELGADA

14301X

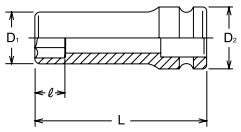
mm	D1	D2	ℓ	L	⚖	Ref	€
8	13	24	8	60	72	**14301X8**	**19,66**
9	14,2	24	9	60	75	**14301X9**	**19,66**
10	15,5	24	10	60	79	**14301X10**	**19,66**
11	16,7	24	11	60	82	**14301X11**	**19,66**
12	18	24	12	60	88	**14301X12**	**19,66**
13	19,2	24	13	60	92	**14301X13**	**19,66**
14	20,5	24	14	60	97	**14301X14**	**19,66**
15	21,7	29	15	60	125	**14301X15**	**19,66**
16	23	29	16	60	135	**14301X16**	**20,97**
17	24,2	29	17	60	142	**14301X17**	**20,97**
18	25,5	29	18	60	148	**14301X18**	**20,97**
19	26,7	29	19	60	151	**14301X19**	**21,17**
21	29,2	29	21	60	170	**14301X21**	**22,81**
22	30,5	29	22	65	187	**14301X22**	**22,81**
23	31,7	29	23	65	192	**14301X23**	**24,10**
24	33	29	24	65	202	**14301X24**	**24,10**
25	34,2	29	25	65	210	**14301X25**	**24,10**
26	35,5	29	26	65	218	**14301X26**	**27,02**
27	36,7	29	27	65	231	**14301X27**	**28,68**
30	40,5	29	30	65	268	**14301X30**	**29,00**
32	43	29	32	65	296	**14301X32**	**29,00**
33	44,2	29	33	65	318	**14301X33**	**31,15**
34	45,5	29	34	65	330	**14301X34**	**31,15**
36	48	29	36	65	350	**14301X36**	**31,15**



⬡ VASOS HEXAGONALES LARGOS

14300M 14300A

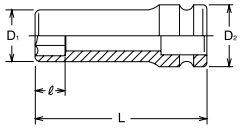
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
8	**5/16**	14,5	25	8	80	137	**14300M8**		**14300A5/16**	**13,43**
9		15,7	25	9	80	138	**14300M9**			
10	**3/8**	17	25	10	80	140	**14300M10**	**13,43**	**14300A3/8**	**13,43**
11	**7/16**	18,2	25	11	80	156	**14300M11**	**13,43**	**14300A7/16**	**13,43**
12		19,5	25	12	80	162	**14300M12**	**13,43**		
13	**1/2**	20,7	25	13	80	162	**14300M13**	**14,19**	**14300A1/2**	**14,19**
14	**9/16**	22	25	14	80	174	**14300M14**	**14,19**	**14300A9/16**	**14,19**
15		23,2	30	15	80	220	**14300M15**	**14,90**		
16	**5/8**	24,5	30	16	80	232	**14300M16**	**14,90**	**14300A5/8**	**14,90**
17	**11/16**	25,7	30	17	80	232	**14300M17**	**14,90**	**14300A11/16**	**14,90**
18		27	30	18	80	232	**14300M18**	**14,90**		
19	**3/4**	28,2	30	19	80	259	**14300M19**	**14,90**	**14300A3/4**	**14,90**
20		29,5	30	20	80	265	**14300M20**	**16,08**		
21	**13/16**	30,7	30	21	80	265	**14300M21**	**16,51**	**14300A13/16**	**16,08**
22	**7/8**	32	30	22	85	290	**14300M22**	**16,51**	**14300A7/8**	**16,51**
23		33,2	30	23	85	300	**14300M23**	**17,06**		
24	**15/16**	34,5	30	24	85	329	**14300M24**	**17,92**	**14300A15/16**	**17,92**
25	**1**	35,7	30	25	85	345	**14300M25**	**20,22**	**14300A1**	**20,22**
26		37	30	26	85	350	**14300M26**	**20,22**		
27	**1-1/16**	38,2	30	27	85	385	**14300M27**	**20,22**	**14300A1-1/16**	**20,22**
28		39,5	30	28	85	390	**14300M28**	**22,27**		
29	**1-1/8**	40,7	30	29	85	416	**14300M29**	**26,58**	**14300A1-1/8**	**22,27**
30	**1-3/16**	42	30	30	85	457	**14300M30**	**26,58**	**14300A1-3/16**	**26,58**
31		43,2	30	31	85	505	**14300M31**	**28,17**		
32	**1-1/4**	44,5	30	32	85	542	**14300M32**	**28,17**	**14300A1-1/4**	**28,17**
33		45,7	30	33	85	562	**14300M33**	**31,22**		
34		47	30	33	85	570	**14300M34**	**31,22**		
35		48,2	30	35	85	600	**14300M35**	**31,22**		
36		49,5	30	36	85	640	**14300M36**	**34,92**		
	1- 7/16	50,7	30	37	85	580			**14300A1-7/16**	**43,79**
38	**1-1/2**	52	30	38	85	655	**14300M38**	**40,61**		
41		55,7	30	38	85	690	**14300M41**	**41,60**		



⬡ VASOS HEXAGONALES LARGOS DE PARED DELGADA

14301M 14301A

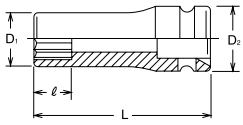
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
8		13	24	8	80	87	**14301M8**	**15,80**		
9		14,2	24	9	80	92	**14301M9**	**15,80**		
10	**3/8**	15,5	24	10	80	98	**14301M10**	**15,80**	**14301A3/8**	**16,52**
11	**7/16**	16,7	24	11	80	104	**14301M11**	**15,80**	**14301A7/16**	**16,52**
12		18	24	12	80	111	**14301M12**	**15,80**		
13	**1/2**	19,2	24	13	80	120	**14301M13**	**19,06**	**14301A1/2**	**16,52**
14	**9/16**	20,5	24	14	80	127	**14301M14**	**19,06**	**14301A9/16**	**19,07**
15		21,7	29	15	80	169	**14301M15**	**19,06**		
16	**5/8**	23	29	16	80	173	**14301M16**	**19,72**	**14301A5/8**	**19,07**
17	**11/16**	24,2	29	17	80	182	**14301M17**	**19,72**	**14301A11/16**	**19,71**
18		25,5	29	18	80	192	**14301M18**	**19,72**		
19	**3/4**	26,7	29	19	80	197	**14301M19**	**19,72**	**14301A3/4**	**19,71**
20		28	29	20	80	203	**14301M20**	**21,63**		
21	**13/16**	29,2	29	21	80	218	**14301M21**	**23,47**	**14301A13/16**	**21,62**
22	**7/8**	30,5	29	22	85	244	**14301M22**	**23,47**	**14301A7/8**	**23,58**
23		31,7	29	23	85	253	**14301M23**	**24,20**		
24	**15/16**	33	29	24	85	261	**14301M24**	**25,48**	**14301A15/16**	**25,49**
25		34,2	29	25	85	282	**14301M25**	**28,76**		
26		35,5	29	26	85	299	**14301M26**	**28,76**		
27	**1- 1/16**	36,7	29	27	85	314	**14301M27**	**28,76**	**14301A1-1/16**	**28,75**
28		38	29	29	85	273	**14301M28**	**28,76**		
29	**1- 1/8**	39,2	29	29	85	280	**14301M29**	**37,76**	**14301A1-1/8**	**34,31**
30		40,5	29	30	85	360	**14301M30**	**37,76**		
31		41,7	29	31	85	370	**14301M31**	**40,06**		
32		43	29	32	85	380	**14301M32**	**40,06**		
34		45,5	29	34	85	411	**14301M34**	**44,37**		
35		46,7	29	35	85	450	**14301M35**	**47,23**		
36		48	29	36	85	460	**14301M36**	**49,62**		
38		50,5	29	38	85	508	**14301M38**	**51,06**		
41		54,2	29	38	85	552	**14301M41**	**61,74**		



○ VASOS BIHEXAGONALES LARGOS

14305M

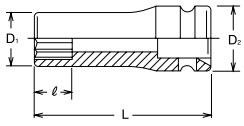
mm	D1	D2	ℓ	L	⚖	Ref	€
8	14,5	25	8	80	137	**14305M8**	**18,51**
10	17	25	10	80	140	**14305M10**	**18,99**
11	18,2	25	11	80	156	**14305M11**	**18,99**
12	19,5	25	12	80	162	**14305M12**	**18,99**
13	20,7	25	13	80	162	**14305M13**	**18,99**
14	22	25	14	80	174	**14305M14**	**18,99**
15	23,2	30	15	80	220	**14305M15**	**18,99**
16	24,5	30	16	80	232	**14305M16**	**18,99**
17	25,7	30	17	80	232	**14305M17**	**18,99**
18	27	30	18	80	232	**14305M18**	**19,11**
19	28,2	30	19	80	259	**14305M19**	**19,11**
20	29,5	30	20	80	265	**14305M20**	**19,11**
21	30,7	30	21	80	265	**14305M21**	**20,51**
22	32	30	22	85	290	**14305M22**	**20,51**
23	33,2	30	23	85	300	**14305M23**	**21,92**
24	34,5	30	24	85	329	**14305M24**	**21,92**
26	37	30	26	85	350	**14305M26**	**25,34**
27	38,2	30	27	85	385	**14305M27**	**25,90**
28	39,5	30	28	85	390	**14305M28**	**27,29**
29	40,7	30	29	85	416	**14305M29**	**28,94**
30	42	30	30	85	457	**14305M30**	**28,94**
32	44,5	30	32	85	542	**14305M32**	**33,63**
33	45,7	30	33	85	562	**14305M33**	**41,77**
36	49,5	30	36	85	635	**14305M36**	**54,80**



○ VASOS BIHEXAGONALES LARGOS DE PARED DELGADA

14306M

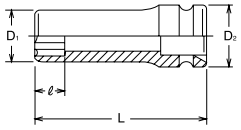
mm	D1	D2	ℓ	L	⚖	Ref	€
8	13	24	8	80	88	**14306M8**	**20,49**
10	15,5	24	10	80	98	**14306M10**	**20,49**
12	18	24	12	80	111	**14306M12**	**20,49**
13	19,2	24	13	80	120	**14306M13**	**20,49**
14	20,5	24	14	80	127	**14306M14**	**20,49**
15	21,7	29	15	80	169	**14306M15**	**21,87**
16	23	29	16	80	173	**14306M16**	**21,87**
17	24,2	29	17	80	182	**14306M17**	**21,87**
18	25,5	29	18	80	192	**14306M18**	**22,06**
19	26,7	29	19	80	197	**14306M19**	**22,06**
21	29,2	29	21	80	218	**14306M21**	**23,65**
22	30,5	29	22	85	244	**14306M22**	**23,65**
24	33	29	24	85	261	**14306M24**	**25,31**
27	36,7	29	27	85	314	**14306M27**	**29,84**
30	40,5	29	30	85	360	**14306M30**	**38,80**
32	43	29	32	85	380	**14306M32**	**40,94**



○ VASOS SURFACE DRIVE (DE CONTACTO CURVO) LARGOS

14310M

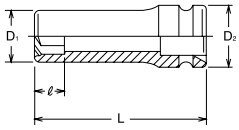
mm	D1	D2	ℓ	L	⚖	Ref	€
10	17	25	10	80	136	**14310M10**	**17,20**
11	18,2	25	11	80	148	**14310M11**	**17,20**
12	19,5	25	12	80	156	**14310M12**	**17,20**
13	20,7	25	13	80	158	**14310M13**	**16,68**
14	22	25	14	80	170	**14310M14**	**16,68**
15	23,2	30	15	80	225	**14310M15**	**16,68**
16	24,5	30	16	80	228	**14310M16**	**17,69**
17	25,7	30	17	80	232	**14310M17**	**17,69**
18	27	30	18	80	232	**14310M18**	**17,69**
19	28,2	30	19	80	252	**14310M19**	**17,69**
20	29,5	30	20	80	260	**14310M20**	**19,44**
21	30,7	30	21	80	260	**14310M21**	**19,44**
22	32	30	22	80	290	**14310M22**	**19,44**
23	33,2	30	23	80	300	**14310M23**	**21,16**
24	34,5	30	24	80	322	**14310M24**	**21,16**
25	35,7	30	25	80	338	**14310M25**	**21,60**
26	37	30	26	80	350	**14310M26**	**26,08**
27	38,2	30	27	80	380	**14310M27**	**26,64**
28	39,5	30	28	80	390	**14310M28**	**27,28**
29	40,7	30	29	80	416	**14310M29**	**29,85**
30	42	30	30	80	450	**14310M30**	**29,85**
31	43,2	30	31	80	505	**14310M31**	**33,68**
32	44,5	30	32	80	535	**14310M32**	**33,68**
34	47	30	34	80	563	**14310M34**	**45,42**
36	49,5	30	36	80	630	**14310M36**	**56,40**



VASOS PATHFINDER (GUÍA) LARGOS

14365M

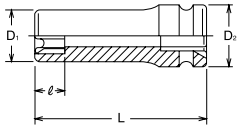
mm	D1	D2	ℓ	L	⚖	Ref	€
10	17	25	8	80	138	**14365M10**	**21,50**
11	18,2	25	8	80	144	**14365M11**	**21,50**
12	19,5	25	9	80	165	**14365M12**	**21,50**
13	20,7	25	9	80	170	**14365M13**	**21,50**
14	22	25	11	80	178	**14365M14**	**21,50**
15	23,2	30	11	80	237	**14365M15**	**22,47**
16	24,5	30	11	80	245	**14365M16**	**22,47**
17	25,7	30	12	80	263	**14365M17**	**23,99**
18	27	30	13	80	268	**14365M18**	**23,79**
19	28,2	30	13	80	270	**14365M19**	**23,79**
20	29,5	30	14	80	274	**14365M20**	**24,78**
21	30,7	30	14	80	287	**14365M21**	**24,78**
22	32	30	15	80	314	**14365M22**	**24,78**
23	33,2	30	15	80	320	**14365M23**	**26,82**
24	34,5	30	15	80	335	**14365M24**	**26,82**
26	37	30	15	80	388	**14365M26**	**27,67**
27	38,2	30	16	80	407	**14365M27**	**29,81**



VASOS TORX® LARGOS

14325

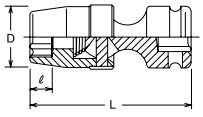
TORX®	D1	D2	ℓ	L	⚖	Ref Métrica	€
E10	14,2	25	8,2	80	136	**14325E10**	**19,38**
E12	15,2	25	9,3	80	141	**14325E12**	**19,38**
E14	18,2	25	10,6	80	147	**14325E14**	**19,38**
E16	19,2	25	11,8	80	151	**14325E16**	**19,38**
E18	22,2	25	13	80	218	**14325E18**	**19,38**
E20	24,2	30	14,4	80	225	**14325E20**	**20,96**



VASOS CON ARTICULACIÓN UNIVERSAL

14440M **14440A**

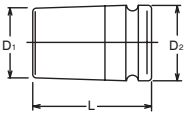
mm	pulgadas	D	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
13	**1/2**	20,7	6	67,5	210	**14440M13**	**54,44**	**14440A1/2**	**56,97**
14	**9/16**	22	7	69,5	210	**14440M14**	**54,44**	**14440A9/16**	**56,97**
15		23,2	7	69,5	210	**14440M15**	**54,44**		
16	**5/8**	24,5	8	69,5	206	**14440M16**	**54,44**	**14440A5/8**	**56,97**
17	**11/16**	25,7	8	69,5	220	**14440M17**	**54,44**	**14440A11/16**	**56,97**
18		27	9	69,5	218	**14440M18**	**54,44**		
19	**3/4**	28,2	10	73,5	260	**14440M19**	**54,44**	**14440A3/4**	**56,97**
20		29,5	10	73,5	270	**14440M20**	**54,44**		
21		30,7	11	73,5	280	**14440M21**	**54,44**		
22		32	13	73,5	290	**14440M22**	**55,83**		
24		34,5	14	75,5	300	**14440M24**	**55,83**		



○ EXTRACTOR DE ESPÁRRAGOS

14100M 14100A

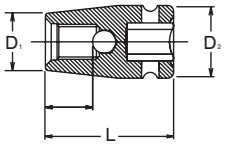
mm	pulgadas	D1	D2	L	⚖	Ref Métrica	€	Ref Pulgadas	€
6	**1/4**	24	25	48	126	**14100M6**	**34,04**	**14100A1/4**	**35,69**
7		24	25	48	126	**14100M7**	**34,04**		
8	**5/16**	24	25	48	122	**14100M8**	**34,04**	**14100A5/16**	**35,69**
9	**3/8**	28	30	48	181	**14100M9**	**35,81**	**14100A3/8**	**37,53**
10	**7/16**	28	30	48	181	**14100M10**	**35,81**	**14100A7/16**	**37,53**
12	**1/2**	28	30	48	175	**14100M12**	**35,81**	**14100A1/2**	**37,53**



○ EXTRACTOR DE ESPÁRRAGOS

14103M

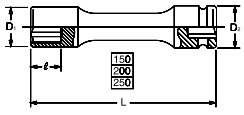
mm	D1	D2	ℓ	L	⚖	Ref	€
6 (1,0)	12	25	10	42	75	**14103M6**	**15,22**
7 (1,0)	13,2	25	11,4	42	78	**14103M7**	**15,22**
8 (1,25)	14,5	25	11,5	42	81	**14103M8**	**15,22**
10 (1,25)	17	25	13,5	49	106	**14103M10x1,25**	**18,43**
10 (1,5)	17	25	13,5	49	106	**14103M10x1,5**	**18,43**
12 (1,25)	19,5	25	15,5	49	107	**14103M12x1,25**	**18,43**
12 (1,75)	19,5	25	15,5	49	107	**14103M12x1,75**	**18,43**
14 (1,5)	22	25	18,2	55	128	**14103M14x1,5**	**18,43**
14 (2,0)	22	25	18,2	55	128	**14103M14x2**	**19,99**



○ VASOS EXTRA LARGOS

14145M-150/-200/-250

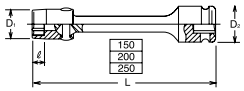
mm	D1	D2	ℓ	⚖			Ref	L150	€	L200	€	L250	€
				150	200	250							
10	17	25	10	190	234	278	**14145M**	**150-10**	**32,63**	**200-10**	**36,15**	**250-10**	**37,82**
12	19,5	25	12	204	248	292	**14145M**	**150-12**	**32,63**	**200-12**	**36,15**	**250-12**	**37,82**
13	20,7	25	13	216	260	304	**14145M**	**150-13**	**32,63**	**200-13**	**36,15**	**250-13**	**37,82**
14	22	25	14	228	272	316	**14145M**	**150-14**	**32,63**	**200-14**	**36,15**	**250-14**	**37,82**
15	23,2	25	15	240	284	328	**14145M**	**150-15**	**34,15**	**200-15**	**37,65**	**250-15**	**39,11**
16	24,5	25	16	245	290	335	**14145M**	**150-16**	**37,66**	**200-16**	**37,65**	**250-16**	**39,11**
17	25,7	25	17	253	297	341	**14145M**	**150-17**	**34,15**	**200-17**	**37,65**	**250-17**	**39,11**
18	27	25	18	260	305	350	**14145M**	**150-18**	**34,15**	**200-18**	**37,65**	**250-18**	**39,11**
19	28,2	25	19	267	311	355	**14145M**	**150-19**	**34,15**	**200-19**	**37,65**	**250-19**	**39,11**



○ VASOS CON ARTICULACIÓN UNIVERSAL EXTRA LARGOS

14146M-150/-200/-250

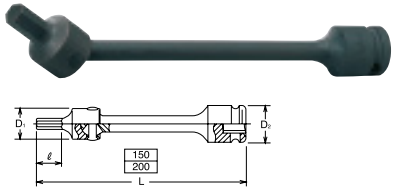
mm	D1	D2	ℓ	⚖			Ref	L150	€	L200	€	L250	€
				150	200	250							
10	16	25	10	190	234	278	**14146M**	**150-10**	**65,46**	**200-10**	**68,62**	**25010**	**70,45**
12	19,5	25	12	204	248	292	**14146M**	**150-12**	**65,46**	**200-12**	**68,62**	**25012**	**70,45**
13	20	25	13	216	260	304	**14146M**	**150-13**	**65,46**	**200-13**	**68,62**	**25013**	**70,45**
14	21	25	14	228	272	316	**14146M**	**150-14**	**65,46**	**200-14**	**68,62**	**25014**	**70,45**
15	22	25	15	240	284	328	**14146M**	**150-15**	**65,46**	**200-15**	**68,62**	**25015**	**70,45**
16	23	25	16	245	290	335	**14146M**	**150-16**	**65,46**	**200-16**	**68,62**	**25016**	**70,45**
17	25	25	17	253	297	341	**14146M**	**150-17**	**65,46**	**200-17**	**68,62**	**25017**	**70,45**
18	26	25	18	260	305	350	**14146M**	**150-18**	**65,46**	**200-18**	**68,62**	**25018**	**70,45**
19	28	25	19	267	311	355	**14146M**	**150-19**	**65,46**	**200-19**	**68,62**	**25019**	**70,45**



VASOS INHEX CON ARTICULACIÓN UNIVERSAL EXTRA-LARGOS

14147M-150/-200

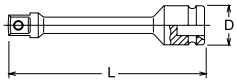
mm	D1	D2	ℓ	⚖ 150	⚖ 200	Ref L150	€	Ref L200	€
6	25	25	15	200	244	**14147M-1506**	**67,29**	**14147M-2006**	**70,46**
8	25	25	15	205	249	**14147M-1508**	**67,29**	**14147M-2008**	**70,46**
10	25	25	15	210	254	**14147M-15010**	**67,29**	**14147M-20010**	**70,46**
12	25	25	15	217	261	**14147M-15012**	**67,29**	**14147M-20012**	**70,46**



VASOS PARA RUEDA

14112-P

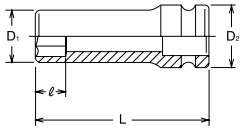
mm	D	L	⚖	Ref	€
90Nm	25	208	206	**14112P90**	**26,60**
95Nm	25	202	200	**14112P95**	**26,60**
100Nm	25	196	198	**14112P100**	**26,60**
110Nm	25	213	220	**14112P110**	**26,60**
120Nm	25	201	219	**14112P120**	**27,20**
130Nm	25	205	225	**14112P130**	**27,20**
140Nm	25	205	230	**14112P140**	**27,20**
150Nm	25	195	250	**14112P150**	**27,20**
170Nm	25	195	257	**14112P170**	**27,20**



VASOS DE IMPACTO DE ALEACIÓN DE ALUMINIO, PARA TUERCAS DE RUEDA DE ALUMINIO

AN14300

mm	D1	D2	ℓ	L	⚖	Ref	€
17	25,7	30	17	80	85	**AN14300M17**	**25,98**
19	28,2	30	19	80	89	**AN14300M19**	**25,98**
21	30,7	30	21	80	93	**AN14300M21**	**25,98**

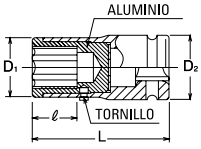


VASOS DE IMPACTO CON PARTES INTERNAS DE ALUMINIO RECAMBIABLES

AR14300

mm	D1	D2	ℓ	L	⚖	Ref	€
17	28	30	21	65	220	**AR14300M17**	**29,57**
19	30	30	24	65	223	**AR14300M19**	**30,82**
21	33	30	25	65	237	**AR14300M21**	**34,09**

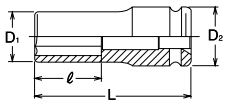
Patentado



VASOS DE IMPACTO CON TOPES DE PLÁSTICO PARA TORNILLOS DE TAPACUBOS

14113M

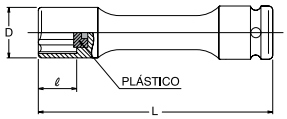
mm	D1	D2	ℓ	L	⚖	Ref	€
17	25,7	30	34	80	230	**14113M17**	**20,15**
19	28,2	30	38	80	262	**14113M19**	**20,15**
21	30,7	30	42	80	285	**14113M21**	**18,50**



VASOS PARA RUEDA

14145PM-110

mm	D	ℓ	L	⚖	Ref	€
17	23,7	21	110	208	**14145PM11017**	**33,73**
19	25,7	23	110	219	**14145PM11019**	**33,73**
21	27,5	25	110	226	**14145PM11021**	**35,49**
22	29	26	110	238	**14145PM11022**	**35,49**



JUEGO DE VASOS

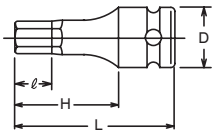
14201M

Ref		⚖			€
14201M	125 x 95 x 34	690	3	17, 19, 21	**97,72**

VASOS CON PUNTA HEXAGONAL

14012M

mm	D	ℓ	L	⚖	Ref	€
4	25	15,5	60	68	**14012M60-4**	**11,97**
5	25	15,5	60	71	**14012M60-5**	**11,97**
6	25	15,5	60	74	**14012M60-6**	**11,97**
7	25	15,5	60	80	**14012M60-7**	**11,97**
8	25	15,5	60	84	**14012M60-8**	**11,97**
10	30	15,5	60	140	**14012M60-10**	**11,97**
12	30	15,5	60	150	**14012M60-12**	**11,97**
14	30	15,5	60	170	**14012M60-14**	**12,55**
16	30	15,5	60	180	**14012M60-16**	**12,55**
17	30	15,5	60	190	**14012M60-17**	**12,55**
19	30	15,5	60	210	**14012M60-19**	**12,95**



JUEGO DE VASOS EN REGLETA

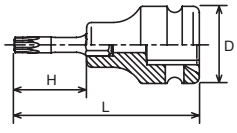
RS14012M/10-L60

Ref	Tipo		⚖			€
RS14012M/10-L60	**14012M**	300	1,300	10	4, 5, 6, 7, 8, 10, 12, 14, 17, 19	**121,66**

VASOS CON PUNTA TORX®

14025-60/-100

TORX®	D	⚖		Ref L60	€	Ref L100	€
		60	100				
T20	25	75		**14025-60T20**	**26,28**		
T25	25	75		**14025-60T25**	**26,28**		
T27	25	75		**14025-60T27**	**26,28**		
T30	25	80	85	**14025-60T30**	**26,28**	**14025-100T30**	**22,37**
T40	25	85	95	**14025-60T40**	**26,28**	**14025-100T40**	**22,37**
T45	25	85	102	**14025-60T45**	**26,28**	**14025-100T45**	**22,37**
T50	25	95	120	**14025-60T50**	**27,69**	**14025-100T50**	**23,51**
T55	25	110	155	**14025-60T55**	**30,18**	**14025-100T55**	**25,61**
T60	30	160	220	**14025-60T60**	**32,40**	**14025-100T60**	**28,79**



JUEGO DE VASOS EN REGLETA

RS14025/6-L60

Ref	Tipo		⚖			€
RS14025/6-L60	**14025**	200	650	6	T30, T40, T45, T50, T55, T60	**142,16**

PORTA PUNTA

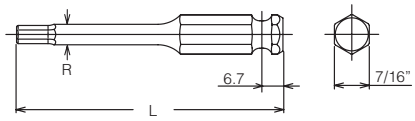
14134

Ref	L	⚖	€
14134	38	90	**17,82**

PUNTA PARA TORNILLOS INHEX

183H-35

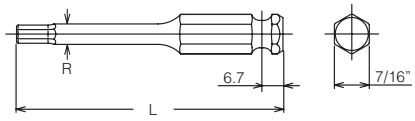
pulgadas	L	⚖	Ref	€
3/16	35	15	**183H3/16**	**6,44**
7/32	35	16	**183H7/32**	**6,41**
1/4	35	18	**183H1/4**	**6,41**
5/16	35	20	**183H5/16**	**6,81**
3/8	35	26	**183H3/8**	**6,81**
7/16	35	28	**183H7/16**	**7,05**
1/2	35	38	**183H1/2**	**9,73**



PUNTA PARA TORNILLOS INHEX

183H-35/-75/-150

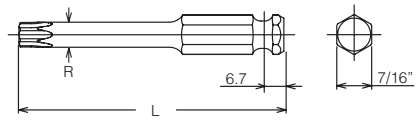
mm	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
3	15	34		**183H-353**	**6,42**	**183H-753**	**9,48**		
4	15	35	51	**183H-354**	**6,42**	**183H-754**	**9,48**	**183H-1504**	**10,14**
5	15	36	55	**183H-355**	**6,42**	**183H-755**	**9,48**	**183H-1505**	**10,14**
6	18	39	65	**183H-356**	**6,42**	**183H-756**	**9,48**	**183H-1506**	**10,14**
7	19	44		**183H-357**	**6,88**	**183H-757**	**9,48**		
8	20	47	87	**183H-358**	**6,88**	**183H-758**	**9,48**	**183H-1508**	**10,14**
10	26	57	118	**183H-3510**	**6,88**	**183H-7510**	**9,48**	**183H-15010**	**10,14**
11	28	60		**183H-3511**	**8,78**	**183H-7511**	**13,76**		
12	30	65	136	**183H-3512**	**8,78**	**183H-7512**	**9,48**	**183H-15012**	**14,66**
14	35	79		**183H-3514**	**8,78**	**183H-7514**	**15,19**		
16	47			**183H-3516**	**8,78**				
17	50			**183H-3517**	**8,78**				
18	53			**183H-3518**	**11,48**				
19	56			**183H-3519**	**11,48**				



PUNTAS TORX

183T-35/-75/-150 (T)

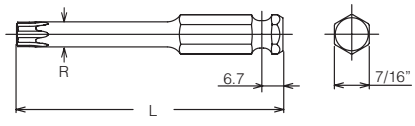
TORX®	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
T25	18			**183T35-25**	**8,41**				
T30	18	35	50	**183T35-30**	**8,41**	**183T75-30**	**11,12**	**183T150-30**	**15,12**
T40	20	37	58	**183T35-40**	**8,41**	**183T75-40**	**11,12**	**183T150-40**	**15,12**
T45	22	41	70	**183T35-45**	**8,41**	**183T75-45**	**11,12**	**183T150-45**	**15,12**
T50	26	45	82	**183T35-50**	**8,61**	**183T75-50**	**11,12**	**183T150-50**	**15,12**
T55	30	55	113	**183T35-55**	**8,61**	**183T75-55**	**11,12**	**183T150-55**	**15,12**
T60	38	67		**183T35-60**	**10,79**	**183T75-60**	**12,06**		



PUNTAS TORX PLUS

183T-35/-75 (IP)

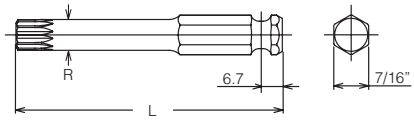
TORX®	⚖		Ref L35	€	Ref L75	€
	35	75				
30IP	18	35	**183T35-30IP**	**7,43**	**183T75-30IP**	**9,11**
40IP	20	37	**183T35-40IP**	**7,43**	**183T75-40IP**	**9,11**
45IP	22	41	**183T35-45IP**	**7,43**	**183T75-45IP**	**9,11**
50IP	26	45	**183T35-50IP**	**7,71**	**183T75-50IP**	**9,11**
55IP	30	56	**183T35-55IP**	**7,71**	**183T75-55IP**	**9,11**
60IP	38	67	**183T35-60IP**	**12,98**	**183T75-60IP**	**14,82**



PUNTAS XZN

183X-35/-75/-150 (XZN)

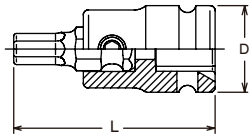
mm	⚖			Ref L35	€	Ref L75	€	Ref L150	€
	35	75	150						
M4	18	34		183X35M4	8,65	183X75M4	11,76		
M5	18	34	50	183X35M5	8,65	183X75M5	11,76	183X150M5	12,67
M6	20	36	53	183X35M6	8,65	183X75M6	11,76	183X150M6	12,67
M8	22	39	64	183X35M8	8,65	183X75M8	11,76	183X150M8	15,79
M10	26	54	93	183X35M10	10,40	183X75M10	12,14	183X150M10	15,79
M12	30	57	121	183X35M12	15,46	183X75M12	17,91	183X150M12	19,22
M14	38	67		183X35M14	16,54	183X75M14	18,65		



VASOS CON PUNTA HEXAGONAL

14134M-58/-98

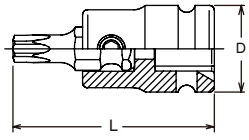
mm	D	⚖		Ref L58	€	Ref L98	€
		58	98				
3	25	105	124	14134M58-3	27,09	14134M98-3	28,31
4	25	105	125	14134M58-4	26,96	14134M98-4	28,31
5	25	105	126	14134M58-5	26,96	14134M98-5	28,31
6	25	108	129	14134M58-6	26,96	14134M98-6	28,31
8	25	110	137	14134M58-8	26,96	14134M98-8	29,13
10	25	116	147	14134M58-10	27,29	14134M98-10	29,13
12	25	120	155	14134M58-12	27,29	14134M98-12	29,13
14	25	125	169	14134M58-14	27,29	14134M98-14	29,13



VASOS CON PUNTA TORX®

14134T-58/-98 (T)

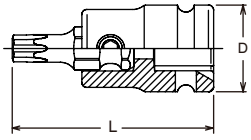
TORX®	D	⚖		Ref L58	€	Ref L98	€
		58	98				
T30	25	88	105	14134T-58T30	27,40	14134T-98T30	28,60
T40	25	90	107	14134T-58T40	27,40	14134T-98T40	28,60
T45	25	92	111	14134T-58T45	27,40	14134T-98T45	28,60
T50	25	96	115	14134T-58T50	27,40	14134T-98T50	28,60
T55	25	100	125	14134T-58T55	27,57	14134T-98T55	28,79
T60	25	108	137	14134T-58T60	29,77	14134T-98T60	30,57



VASOS CON PUNTA TORX® PLUS

14134T-58/-98 (IP)

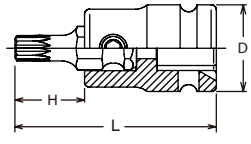
TORX®	D	⚖		Ref L58	€	Ref L98	€
		52	92				
30IP	25	108	125	14134T58-30IP	28,48	14134T98-30IP	29,51
40IP	25	110	127	14134T58-40IP	28,48	14134T98-40IP	29,51
45IP	25	112	131	14134T58-45IP	28,48	14134T98-45IP	29,51
50IP	25	116	135	14134T58-50IP	28,48	14134T98-50IP	29,51
55IP	25	120	146	14134T58-55IP	28,84	14134T98-55IP	30,06
60IP	25	128	159	14134T58-60IP	30,94	14134T98-60IP	36,31



VASOS CON PUNTA XZN

14134X-58/-98 (XZN)

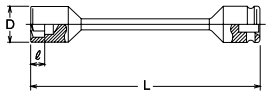
XZN	D	⚖		Ref L58	€	Ref L98	€
		52	92				
M5	25	108	125	14134X-58M5	20,07	14134X-98M5	22,09
M6	25	110	127	14134X-58M6	20,07	14134X-98M6	22,09
M8	25	112	131	14134X-58M8	20,07	14134X-98M8	22,09
M10	25	116	135	14134X-58M10	20,56	14134X-98M10	22,09
M12	25	120	146	14134X-58M12	24,26	14134X-98M12	24,79
M14	25	128	159	14134X-58M14	24,97	14134X-98M14	25,85



BARRAS DE TORSIÓN (SOLAMENTE PARA APRIETE)

14101M

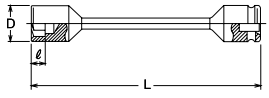
Nm	D	ℓ	L	⚖	Ref	€
14x95Nm	22	11	208	230	**14101M14x95**	**25,84**
15x110Nm	23,2	11	201	230	**14101M15x110**	**25,84**
17x60Nm	25,7	12	216	227	**14101M17x60**	**25,84**
17x75Nm	25,7	12	228	240	**14101M17x75**	**25,84**
17x95Nm	25,7	12	214	256	**14101M17x95**	**25,84**
17x110Nm	25,7	12	204	285	**14101M17x110**	**25,84**
17x120Nm	25,7	12	200	284	**14101M17x120**	**25,84**
19x60Nm	28,2	13	219	237	**14101M19x60**	**28,10**
19x90Nm	28,2	13	259	275	**14101M19x90**	**28,10**
19x110Nm	28,2	13	214	278	**14101M19x110**	**28,10**
19x120Nm	28,2	13	203	297	**14101M19x120**	**28,10**
19x135Nm	28,2	13	206	339	**14101M19x135**	**28,10**
19x170Nm	28,2	13	190	332	**14101M19x170**	**28,10**
21x100Nm	30,7	14	214	288	**14101M21x100**	**28,94**
21x120Nm	30,7	14	203	288	**14101M21x120**	**29,87**
22x160Nm	32	15	209	385	**14101M22x160**	**32,22**



BARRAS DE TORSIÓN (SOLAMENTE PARA APRIETE)

14101MP

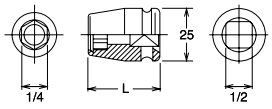
Nm	D	ℓ	L	Ref	€
17x95Nm	25,7	12	214	**14101M17x95**	**35,50**
17x110Nm	25,7	12	204	**14101M17x110**	**35,50**
17x120Nm	25,7	12	200	**14101M17x120**	**35,50**
19x90Nm	28,2	13	259	**14101M19x90**	**36,15**
19x110Nm	28,2	13	214	**14101M19x110**	**36,15**
19x120Nm	28,2	13	203	**14101M19x120**	**36,15**
19x135Nm	28,2	13	206	**14101M19x135**	**36,15**
21x100Nm	30,7	14	214	**14101M21x100**	**38,65**
21x120Nm	30,7	14	203	**14101M21x120**	**38,65**
22x150Nm	30,7	14	220	**14101M22x160**	**44,02**



PORTA PUNTA

14139

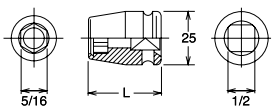
Ref	L	⚖	€
14139	38	62	**15,86**



PORTA PUNTA

14140

Ref	L	⚖	€
14140	38	70	**15,86**



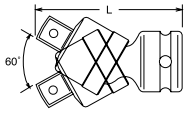
ALARGADERAS

14760-75P/-125P/-175P/-250P

Ref	L	⚖	€
14760-50P	50	150	**14,61**
14760-75P	75	188	**14,61**
14760-100P	100	240	**15,61**
14760-125P	125	275	**15,61**
14760-150P	150	300	**27,47**
14760-175P	175	358	**17,27**
14760-200P	200	405	**18,20**
14760-250P	250	480	**18,45**

ARTICULACIÓN UNIVERSAL

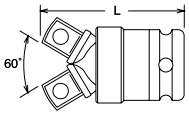
14770P



Ref	L	⚖	€
14770P	74	210	**42,91**

ARTICULACIÓN UNIVERSAL

14771P



Ref	L	⚖	€
14771P	65	198	**33,74**

ADAPTADOR

14433A-P

Ref	L	⚖	€
14433AP	36	68	**13,19**

凹1/2"x 凸3/8"

ADAPTADOR

14455A

Ref	L	⚖	€
14455A	42	135	**14,61**

⚠

凹1/2"x 凸5/8"

ADAPTADOR

14466A

Ref	L	⚖	€
14466A	44	146	**19,99**

凹1/2"x 凸3/4"

ADAPTADOR EXTRACCIÓN RÁPIDA

14444AL

Ref	L	⚖	€
14444AL	55	128	**66,62**

凹1/2"x 凸1/2"

JUEGO DE VASOS

14241M-00/-05

Ref				€
○ **14241M-00**	196 x 100 x 45	13	2.000	**127,87**
○ **14241M-05**	196 x 100 x 45	13	2.000	**127,87**

Vasos 14241M-00

14400M ○ 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27

Vasos 14241M-05

14405M ○ 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27

JUEGO DE VASOS

14242M

Ref				€
○ **14242M**	310 x 90 x 48	12	1.890	**116,35**

Vasos

14400M ○ 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 27

JUEGO DE VASOS

14207M

Ref				€
14207M	310 x 90 x 48	10	2.700	**188,21**

Vasos

14300M ○ 10, 12, 13, 14, 17, 19, 21, 22, 24, 27

JUEGO DE VASOS

14208M

Ref				€
14208M	395 x 90 x 50	13	3.500	**238,83**

Vasos

14300M ○ 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27

JUEGO DE VASOS

14245M-00/-05

Ref				€
○ **14245M-00**	310 x 90 x 48	18	2.250	**187,61**
○ **14245M-05**	310 x 90 x 48	18	2.250	**196,28**

Vasos 14245M-00

14400M ○ 10, 12, 13, 14, 16, 18, 19, 21, 22, 24, 27

Vasos 14245M-05

14405M ○ 10, 12, 13, 14, 16, 18, 19, 21, 22, 24, 27

Accesorios

14760-125

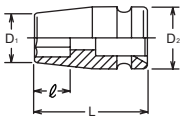
14770

1401A, 1402A, 1401B, 1402B

⬡ VASOS HEXAGONALES

15400M

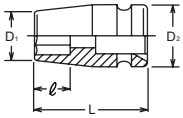
mm	D1	D2	ℓ	L	⚖	Ref	€
14	24	35	10	47,5	220	**15400M14**	**18,31**
17	27,8	35	12	47,5	225	**15400M17**	**18,31**
19	30,3	35	13	47,5	225	**15400M19**	**18,31**
21	32,8	35	15	47,5	225	**15400M21**	**18,31**
22	34	35	15	47,5	225	**15400M22**	**18,31**
23	35,4	35	16	47,5	225	**15400M23**	**18,31**
24	36,5	35	16	50,5	245	**15400M24**	**18,31**
26	39	35	16	50,5	260	**15400M26**	**18,31**



⬡ VASOS SURFACE DRIVE (DE CONTACTO CURVO) LARGOS

15410M

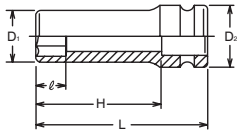
mm	D1	D2	ℓ	L	⚖	Ref	€
14	24	35	10	47,5	220	**15410M14**	**19,20**
17	27,8	35	12	47,5	225	**15410M17**	**19,20**
19	30,3	35	13	47,5	225	**15410M19**	**19,20**
21	32,8	35	15	47,5	225	**15410M21**	**19,20**
22	34	35	15	47,5	225	**15410M22**	**19,20**
23	35,4	35	16	47,5	225	**15410M23**	**19,20**
24	36,5	35	16	50,5	245	**15410M24**	**19,20**
26	39	35	16	50,5	260	**15410M26**	**19,20**



⬡ VASOS HEXAGONALES LARGOS

15300M

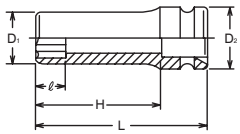
mm	D1	D2	ℓ	L	⚖	Ref	€
14	24	35	14	90	295	**15300M14**	**30,96**
17	27,8	35	17	90	325	**15300M17**	**30,96**
19	30,3	35	19	90	350	**15300M19**	**30,96**
21	32,8	35	21	90	380	**15300M21**	**30,96**
22	34	35	22	90	390	**15300M22**	**30,96**



⬡ VASOS HEXAGONALES LARGOS

15310M

mm	D1	D2	ℓ	L	⚖	Ref	€
14	24	35	14	90	295	**15310M14**	**32,50**
17	27,8	35	17	90	325	**15310M17**	**32,50**
19	30,3	35	19	90	350	**15310M19**	**32,50**
21	32,8	35	21	90	380	**15310M21**	**32,50**
22	34	35	22	90	390	**15310M22**	**32,50**



ADAPTADOR EXTRACCIÓN RÁPIDA

15555AL

Ref	L	⚖	€
15555AL	70	310	**94,94**

ARTICULACIÓN UNIVERSAL

15770

Ref	L	⚖	€
15770	88	420	**67,61**

ADAPTADOR

15544A-P

Ref	L	⚖	€
15544A-P	46	165	**26,44**

凹5/8"x凸1/2"

ADAPTADOR

15566A

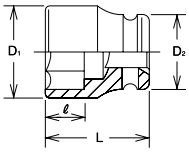
Ref	L	⚖	€
15566A	48	200	**28,60**

凹5/8"x凸3/4"

⬡ VASOS HEXAGONALES

16400M 16400A

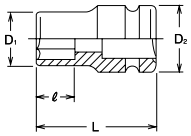
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
16	**5/8**	28,8	44	11	50	367	**16400M16**	**17,64**	**16400A5/8**	**17,21**
17	**11/16**	30	44	12	50	355	**16400M17**	**17,64**	**16400A11/16**	**17,64**
18		31,3	44	13	50	372	**16400M18**	**17,64**		
19	**3/4**	32,5	44	13	50	360	**16400M19**	**18,04**	**16400A3/4**	**18,04**
20		33,8	44	14	50	375	**16400M20**	**19,08**		
21	**13/16**	35	44	15	50	374	**16400M21**	**17,72**	**16400A13/16**	**19,08**
22	**7/8**	36,3	44	15	50	373	**16400M22**	**17,72**	**16400A7/8**	**19,08**
23		37,5	44	16	50	373	**16400M23**	**17,72**		
24	**15/16**	38,8	44	16	50	370	**16400M24**	**17,72**	**16400A15/16**	**17,72**
25	**1**	40	44	16	50	374	**16400M25**	**18,73**	**16400A1**	**18,73**
26		41,3	44	16	50	378	**16400M26**	**18,73**		
27	**1-1/16**	42,5	44	16	50	375	**16400M27**	**19,25**	**16400A1-1/16**	**19,25**
28		43,8	44	16	50	383	**16400M28**	**18,04**		
29	**1-1/8**	45	44	18	53	412	**16400M29**	**18,04**	**16400A1-1/8**	**19,25**
30	**1-3/16**	46,3	44	18	53	410	**16400M30**	**18,04**	**16400A1-3/16**	**18,04**
31		47,5	44	18	53	426	**16400M31**	**21,15**		
32	**1-1/4**	48,8	44	19	53	428	**16400M32**	**21,15**	**16400A1-1/4**	**21,15**
33		50	44	20	55	470	**16400M33**	**23,72**		
34	**1-5/16**	51,3	44	20	55	490	**16400M34**	**24,45**	**16400A 1-5/16**	**25,37**
35	**1-3/8**	52,5	44	20	55	494	**16400M35**	**26,12**	**16400A 1-3/8**	**26,12**
36		53,8	44	20	55	498	**16400M36**	**24,13**		
37	**1-7/16**	55	44	20	55	526	**16400M37**	**27,34**	**16400A 1-7/16**	**26,12**
38	**1-1/2**	56,3	44	20	57	558	**16400M38**	**25,53**	**16400A 1-1/2**	**25,53**
39		57,5	44	20	57	579	**16400M39**	**33,12**		
40	**1-9/16**	58,8	44	20	57	598	**16400M40**	**30,72**	**16400A 1-9/16**	**30,75**
41	**1-5/8**	60	44	22	57	572	**16400M41**	**29,49**	**16400A 1-5/8**	**29,49**
42		61,3	44	22	57	617	**16400M42**	**32,37**		
43	**1-11/16**	62,5	44	23	62	720	**16400M43**	**32,37**	**16400A 1-11/16**	**32,37**
44		63,8	44	23	62	761	**16400M44**	**35,05**		
45	**1-3/4**	65	44	23	62	757	**16400M45**	**39,66**	**16400A 1-3/4**	**35,05**
46	**1-13/16**	66,3	44	23	62	755	**16400M46**	**37,96**	**16400A 1-13/16**	**37,96**
47		67,5	54	23	62	805	**16400M47**	**39,66**		
48	**1-7/8**	68,8	54	23	62	940	**16400M48**	**45,27**	**16400A 1-7/8**	**39,66**
49	**1-15/16**	70	54	23	62	912	**16400M49**	**45,27**	**16400A 1-15/16**	**45,27**
50		71,3	54	30	62	930	**16400M50**	**43,30**		
	2	72,5	54	30	62	969			**16400A2**	**55,22**
52	**2-1/16**	73,8	54	29	62	1.011	**16400M52**	**48,12**	**16400A 2-1/16**	**55,22**
54	**2-1/8**	76,3	54	29	62	1.035	**16400M54**	**55,80**	**16400A 2-1/8**	**55,80**
55	**2-3/16**	77,5	54	29	62	1.056	**16400M55**	**55,53**	**16400A 2-3/16**	**58,41**
56		78,8	54	29	62	1.091	**16400M56**	**59,48**		
57	**2-1/4**	80	54	32	65	1.126	**16400M57**	**59,81**	**16400A 2-1/4**	**59,80**
58	**2-5/16**	81,3	54	31	65	1.163	**16400M58**	**60,90**	**16400A 2-5/16**	**60,90**
59		82,5	54	31	65	1.185	**16400M59**	**60,90**		
60	**2-3/8**	83,8	54	31	65	1.215	**16400M60**	**68,71**	**16400A 2-3/8**	**80,55**
65		90	54	30	65	1.325	**16400M65**	**74,74**		
70		96,3	54	34	70	1.570	**16400M70**	**82,97**		



⬡ VASOS HEXAGONALES DE PARED DELGADA

16401M 16401A

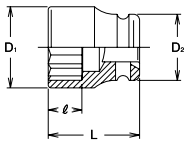
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17	**11/16**	28	43	12	50	300	**16401M17**	**25,96**	**16401A11/16**	**25,96**
18		29,3	43	13	50	300	**16401M18**	**25,96**		
19	**3/4**	30,5	43	13	50	300	**16401M19**	**25,96**	**16401A3/4**	**25,96**
20		31,8	43	14	50	302	**16401M20**	**25,96**		
21	**13/16**	33	43	15	50	305	**16401M21**	**28,36**	**16401A13/16**	**28,36**
22	**7/8**	34,3	43	15	50	310	**16401M22**	**28,36**	**16401A7/8**	**28,36**
23		35,5	43	16	50	315	**16401M23**	**28,36**		
24	**15/16**	36,8	43	16	50	325	**16401M24**	**28,36**	**16401A15/16**	**28,36**
25	**1**	38	43	16	50	326	**16401M25**	**28,85**	**16401A1**	**28,85**
26		39,3	43	16	50	330	**16401M26**	**28,85**		
27	**1-1/16**	40,5	43	16	50	340	**16401M27**	**30,73**	**16401A1-1/16**	**30,73**
28		41,8	43	16	50	345	**16401M28**	**30,73**		
29	**1-1/8**	43	43	18	53	355	**16401M29**	**30,73**	**16401A1-1/8**	**30,73**
30	**1-3/16**	44,3	43	18	53	365	**16401M30**	**30,73**	**16401A1-3/16**	**30,73**
31		45,5	43	18	53	375	**16401M31**	**30,73**		
32	**1-1/4**	46,8	43	19	53	385	**16401M32**	**33,85**	**16401A1-1/4**	**33,83**
33		48	43	20	55	395	**16401M33**	**30,81**		
34	**1-5/16**	49,3	43	20	55	420	**16401M34**	**30,81**	**16401A 1-5/16**	**33,83**
35	**1-3/8**	50,5	43	20	55	430	**16401M35**	**40,64**	**16401A 1-3/8**	**38,88**
36		51,8	43	20	55	440	**16401M36**	**40,64**		
37	**1-7/16**	53	43	20	55	460	**16401M37**	**45,13**	**16401A 1-7/16**	**40,98**
38	**1-1/2**	54,3	43	20	57	472	**16401M38**	**45,13**	**16401A 1-1/2**	**43,75**
40	**1-9/16**	56,8	43	20	57	525	**16401M40**	**50,56**	**16401A 1-9/16**	**49,20**
41	**1-5/8**	58	43	22	57	555	**16401M41**	**50,56**	**16401A 1-5/8**	**53,79**
42		59,3	43	22	57	565	**16401M42**	**55,24**		
43		60,5	43	23	62	662	**16401M43**	**55,24**		
44		61,8	43	23	62	670	**16401M44**	**59,43**		
45		63	43	23	62	700	**16401M45**	**59,43**		
46	**1-13/16**	64,3	43	23	62	710	**16401M46**	**65,27**	**16401A 1-13/16**	**65,24**
	1-7/8	66,8	53	23	62	868			**16401A 1-7/8**	**65,24**



⬡ VASOS BIHEXAGONALES

16405M

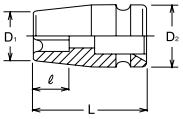
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
17	30	44	12	50	355	**16405M17**	**27,60**
18	31,3	44	13	50	372	**16405M18**	**27,60**
19	32,5	44	13	50	360	**16405M19**	**27,60**
20	33,8	44	14	50	375	**16405M20**	**29,89**
21	35	44	15	50	374	**16405M21**	**29,89**
22	36,3	44	15	50	373	**16405M22**	**29,89**
23	37,5	44	16	50	373	**16405M23**	**29,89**
24	38,8	44	16	50	370	**16405M24**	**29,89**
25	40	44	16	50	374	**16405M25**	**31,63**
26	41,3	44	16	50	378	**16405M26**	**31,63**
27	42,5	44	16	50	375	**16405M27**	**32,39**
28	43,8	44	16	50	383	**16405M28**	**32,39**
29	45	44	18	53	412	**16405M29**	**32,39**
30	46,3	44	18	53	410	**16405M30**	**32,39**
32	48,8	44	19	53	428	**16405M32**	**42,80**
33	50	44	20	55	470	**16405M33**	**42,80**
34	51,3	44	20	55	490	**16405M34**	**42,80**
36	53,8	44	20	55	498	**16405M36**	**42,80**
38	56,3	44	20	57	558	**16405M38**	**45,19**
41	60	44	22	57	572	**16405M41**	**56,28**
42	61,3	44	22	57	617	**16405M42**	**56,27**
46	66,3	44	23	62	755	**16405M46**	**68,84**
50	71,3	54	30	62	930	**16405M50**	**80,08**
52	73,8	54	29	62	1.011	**16405M52**	**87,57**
55	77,5	54	29	62	1.056	**16405M55**	**101,48**
60	83,8	54	31	65	1.215	**16405M60**	**101,48**
65	90	54	30	65	1.325	**16405M65**	**101,48**



VASOS TORX®

16425

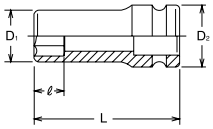
TORX®	D1	D2	ℓ	L	⚖	Ref	€
E18	26,3	44	13	50	355	**16425E18**	**35,75**
E20	28,8	44	14,4	50	370	**16425E20**	**35,75**
E22	31,3	44	15,5	50	390	**16425E22**	**35,75**
E24	32,5	44	17	50	390	**16425E24**	**35,75**
E26	35	44	18,8	60	460	**16425E26**	**41,32**
E28	36,3	44	25,2	60	465	**16425E28**	**46,57**
E30	38,8	44	25,2	60	480	**16425E30**	**50,25**
E32	41,3	44	25,2	60	480	**16425E32**	**50,25**



VASOS HEXAGONALES MEDIANOS DE PARED DELGADA

16301X

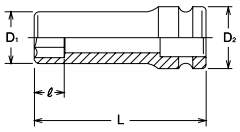
mm	D1	D2	ℓ	L	⚖	Ref	€
17	28	43	17	75	370	**16301X17**	**42,81**
18	29,3	43	18	75	380	**16301X18**	**42,81**
19	30,5	43	19	75	393	**16301X19**	**42,81**
20	31,8	43	20	75	400	**16301X20**	**42,81**
21	33	43	21	75	408	**16301X21**	**42,81**
22	34,3	43	22	75	418	**16301X22**	**42,81**
23	35,5	43	23	75	425	**16301X23**	**42,81**
24	36,8	43	24	75	435	**16301X24**	**42,81**
25	38	43	25	75	449	**16301X25**	**42,81**
26	39,3	43	26	75	455	**16301X26**	**42,81**
27	40,5	43	27	75	464	**16301X27**	**42,81**
28	41,8	43	28	75	479	**16301X28**	**42,81**
29	43	43	29	75	489	**16301X29**	**42,81**
30	44,3	43	30	75	506	**16301X30**	**42,81**
31	45,5	43	31	75	518	**16301X31**	**42,81**
32	46,8	43	32	75	535	**16301X32**	**47,38**
33	48	43	33	75	550	**16301X33**	**47,38**
35	50,5	43	35	75	585	**16301X35**	**47,38**
36	51,8	43	36	75	603	**16301X36**	**56,13**
37	53	43	37	75	645	**16301X37**	**56,13**
38	54,3	43	38	80	691	**16301X38**	**56,13**
40	56,8	43	38	80	725	**16301X40**	**56,13**
41	58	43	38	80	755	**16301X41**	**64,01**
46	64,3	43	38	80	808	**16301X46**	**65,90**



○ VASOS HEXAGONALES LARGOS

16300M 16300A

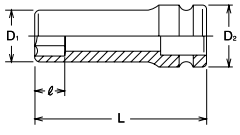
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
14		26,3	44	14	100	497	**16300M14**	**30,14**		
16		28,8	44	16	100	524	**16300M16**	**30,14**		
17		30	44	17	100	544	**16300M17**	**30,14**		
18		31,3	44	18	100	642	**16300M18**	**30,14**		
19	**3/4**	32,5	44	19	100	655	**16300M19**	**30,14**	**16300A3/4**	**30,14**
20		33,8	44	20	100	680	**16300M20**	**30,14**		
21	**13/16**	35	44	21	100	700	**16300M21**	**30,14**	**16300A13/16**	**30,14**
22	**7/8**	36,3	44	22	100	700	**16300M22**	**30,14**	**16300A7/8**	**30,14**
23		37,5	44	23	100	720	**16300M23**	**30,75**		
24	**15/16**	38,8	44	24	100	705	**16300M24**	**30,75**	**16300A15/16**	**30,75**
25	**1**	40	44	25	100	715	**16300M25**	**30,75**	**16300A1**	**30,75**
26		41,3	44	26	100	710	**16300M26**	**30,75**		
27	**1-1/16**	42,5	44	27	100	710	**16300M27**	**30,75**	**16300A1-1/16**	**30,75**
28		43,8	44	28	100	800	**16300M28**	**31,30**		
29	**1-1/8**	45	44	29	100	835	**16300M29**	**31,30**	**16300A1-1/8**	**31,30**
30	**1-3/16**	46,3	44	30	100	840	**16300M30**	**31,30**	**16300A1-3/16**	**31,30**
31		47,5	44	31	100	815	**16300M31**	**32,27**		
32	**1-1/4**	48,8	44	32	100	875	**16300M32**	**32,27**	**16300A1-1/4**	**37,28**
33		50	44	33	100	920	**16300M33**	**41,34**		
34	**1-5/16**	51,3	44	34	100	950	**16300M34**	**41,34**	**16300A1-5/16**	**41,34**
35	**1-3/8**	52,5	44	35	100	980	**16300M35**	**41,34**	**16300A1-3/8**	**41,34**
36		53,8	44	36	100	960	**16300M36**	**41,34**		
37	**1-7/16**	55	44	37	100	970	**16300M37**	**44,30**	**16300A1-7/16**	**41,34**
38	**1-1/2**	56,3	44	38	100	990	**16300M38**	**44,30**	**16300A1-1/2**	**44,30**
40	**1-9/16**	58,8	44	38	100	1.060	**16300M40**	**47,25**	**16300A1-9/16**	**47,25**
41	**1-5/8**	60	44	38	100	1.120	**16300M41**	**48,84**	**16300A1-5/8**	**48,84**
42		61,3	44	38	100	1.153	**16300M42**	**48,84**		
43	**1-11/16**	62,5	44	38	100	1.200	**16300M43**	**53,38**	**16300A1-11/16**	**53,38**
	1-3/4	65	44	38	100	1.284			**16300A1-3/4**	**61,06**
46	**1-13/16**	66,3	44	38	100	1.305	**16300M46**	**61,53**	**16300A1-13/16**	**61,06**
48	**1-7/8**	68,8	54	38	100	1.480	**16300M48**	**69,65**	**16300A1-7/8**	**61,06**
50		71,3	54	61	100	1.469	**16300M50**	**78,06**		
	2	72,5	54	60	100	1.516			**16300A2**	**69,65**
55		77,5	54	59	100	1.620	**16300M55**	**78,06**		
60		83,8	54	56	100	1.835	**16300M60**	**93,56**		



○ VASOS HEXAGONALES LARGOS DE PARED DELGADA

16301M 16301A

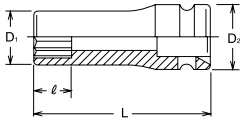
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
16		26,8	43	16	100	435	**16301M16**	**34,01**		
17	**11/16**	28	43	17	100	470	**16301M17**	**34,01**	**16301A11/16**	**34,01**
18		29,3	43	18	100	475	**16301M18**	**34,01**		
19	**3/4**	30,5	43	19	100	480	**16301M19**	**34,01**	**16301A3/4**	**34,01**
20		31,8	43	20	100	491	**16301M20**	**34,01**		
21	**13/16**	33	43	21	100	505	**16301M21**	**34,67**	**16301A13/16**	**34,58**
22	**7/8**	34,3	43	22	100	528	**16301M22**	**34,67**	**16301A7/8**	**34,67**
23		35,5	43	23	100	542	**16301M23**	**34,67**		
24	**15/16**	36,8	43	24	100	560	**16301M24**	**34,67**	**16301A15/16**	**37,15**
25	**1**	38	43	25	100	581	**16301M25**	**37,15**	**16301A1**	**37,15**
26		39,3	43	26	100	600	**16301M26**	**37,15**		
27	**1-1/16**	40,5	43	27	100	610	**16301M27**	**37,15**	**16301A1-1/16**	**37,15**
28		41,8	43	28	100	639	**16301M28**	**45,62**		
29	**1-1/8**	43	43	29	100	650	**16301M29**	**45,62**	**16301A1-1/8**	**45,63**
30	**1-3/16**	44,3	43	30	100	670	**16301M30**	**45,62**	**16301A1-3/16**	**45,63**
31		45,5	43	31	100	690	**16301M31**	**45,62**		
32	**1-1/4**	46,8	43	32	100	715	**16301M32**	**47,20**	**16301A1-1/4**	**47,20**
33		48	43	33	100	750	**16301M33**	**43,94**		
34	**1-5/16**	49,3	43	34	100	772	**16301M34**	**43,94**	**16301A1-5/16**	**47,20**
35	**1-3/8**	50,5	43	35	100	785	**16301M35**	**60,41**	**16301A1-3/8**	**60,40**
36		51,8	43	36	100	830	**16301M36**	**60,41**		
37	**1-7/16**	53	43	37	100	850	**16301M37**	**60,41**	**16301A1-7/16**	**60,40**
38	**1-1/2**	54,3	43	38	100	885	**16301M38**	**64,85**	**16301A1-1/2**	**64,84**
40	**1-9/16**	56,8	43	38	100	925	**16301M40**	**71,14**	**16301A1-9/16**	**71,14**
41	**1-5/8**	58	43	38	100	970	**16301M41**	**73,52**	**16301A1-5/8**	**73,52**
42		59,3	43	38	100	990	**16301M42**	**80,47**		
46	**1-13/16**	64,3	43	38	100	1.150	**16301M46**	**92,10**	**16301A1-13/16**	**92,08**
50		69,2	43	62	100	1.328	**16301M50**	**92,10**		



VASOS BIHEXAGONALES LARGOS

16305M

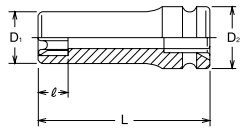
mm	D1	D2	ℓ	L	⚖	Ref	€
14	26,3	44	14	100	500	**16305M14**	**36,60**
16	28,8	44	16	100	522	**16305M16**	**36,60**
17	30	44	17	100	544	**16305M17**	**36,60**
18	31,3	44	18	100	600	**16305M18**	**36,60**
19	32,5	44	19	100	655	**16305M19**	**36,60**
21	35	44	21	100	700	**16305M21**	**36,60**
22	36,3	44	22	100	700	**16305M22**	**36,60**
23	37,5	44	23	100	720	**16305M23**	**36,60**
24	38,8	44	24	100	715	**16305M24**	**36,60**
26	41,3	44	26	100	760	**16305M26**	**36,60**
27	42,5	44	27	100	765	**16305M27**	**36,60**
28	43,8	44	28	100	800	**16305M28**	**36,60**
29	45	44	29	100	835	**16305M29**	**36,60**
30	46,3	44	30	100	840	**16305M30**	**36,60**
32	48,8	44	32	100	875	**16305M32**	**41,31**
33	50	44	33	100	920	**16305M33**	**41,31**
34	51,3	44	34	100	950	**16305M34**	**41,31**
35	52,5	44	35	100	980	**16305M35**	**41,31**
36	53,8	44	36	100	960	**16305M36**	**47,86**
38	56,3	44	38	100	990	**16305M38**	**51,15**
41	60	44	38	100	1.120	**16305M41**	**54,93**
46	66,3	44	38	100	1.305	**16305M46**	**70,56**
50	71,3	54	61	100	1.469	**16305M50**	**70,56**



VASOS TORX® LARGOS

16325

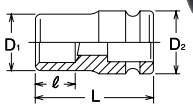
TORX®	D1	D2	ℓ	L	⚖	Ref	€
E18	26,3	44	13	100	520	**16325E18**	**42,44**
E20	28,8	44	14,4	100	560	**16325E20**	**42,44**
E22	31,3	44	15,5	100	600	**16325E22**	**42,44**
E24	32,5	44	17	100	630	**16325E24**	**42,44**
E26	35,0	44	18,8	100	660	**16325E26**	**42,44**
E28	36,3	44	25,2	100	670	**16325E28**	**42,44**
E30	38,8	44	25,2	100	730	**16325E30**	**43,30**
E32	41,3	44	25,2	100	777	**16325E32**	**43,30**



VASOS DE TUERCA DE RUEDA TRASERA

16317M **16317A**

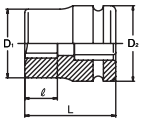
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17		40	44	22,5	67	485	**16317M17**	**39,00**		
19		40	44	22,5	67	462	**16317M19**	**46,49**		
20		44	44	22,5	67	517	**16317M20**	**62,86**		
21	**13/16**	44	44	22,5	67	489	**16317M21**	**62,86**	**16317A13/16**	**65,99**
22		44	44	22,5	67	482	**16317M22**	**62,86**		



VASOS DE TUERCA DE RUEDA TRASERA

PS6

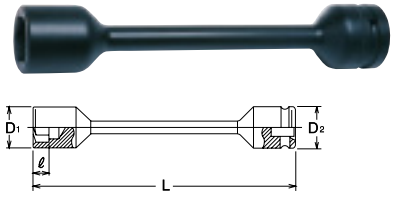
mm	D1	D2	ℓ	L	⚖	Ref	€
17	40	44	19	53	433	**PS617**	**38,43**
19	40	44	19	53	419	**PS619**	**39,16**
20	44	44	21	55	483	**PS620**	**39,82**
21	44	44	23	57	491	**PS621**	**74,78**



BARRAS DE TORSIÓN (SOLAMENTE PARA APRIETE)

16101M

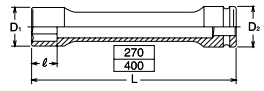
Nm	D1	D2	ℓ	L	⚖	Ref	€
24x180Nm	38,8	44	24	235	850	**16101M24180**	**113,05**
27x450Nm	42,5	44	27	280	1.236	**16101M27450**	**113,05**
32x600Nm	48,8	44	32	280	1.370	**16101M32600**	**122,35**
33x600Nm	50	44	33	280	1.370	**16101M33600**	**122,35**



VASOS DE IMPACTO PARA RUEDA EXTRA LARGOS

16102M-270/-400

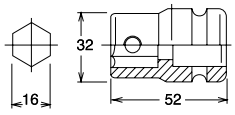
mm	D1	D2	ℓ	⚖ 270	⚖ 400	Ref L270	€	Ref L400	€
24	38,8	44	24	1.034	1.430	**16102M-27024**	**101,00**	**16102M-40024**	**116,21**
27	42,5	44	27	1.088	1.460	**16102M-27027**	**101,00**	**16102M-40027**	**116,21**
30	46,3	44	30	1.144	1.510	**16102M-27030**	**101,00**	**16102M-40030**	**116,21**
32	48,8	44	32	1.157	1.530	**16102M-27032**	**107,28**	**16102M-40032**	**118,07**
33	50	44	32	1.200	1.530	**16102M-27033**	**107,28**	**16102M-40033**	**118,07**
36	53,8	44	32	1.250	2.180	**16102M-27036**	**108,56**	**16102M-40036**	**118,07**
38	56,3	44	32	1.610		**16102M-27038**	**177,36**		
41	60	44	32	1.640		**16102M-27041**	**177,36**		



PORTA PUNTA

16106

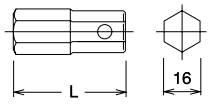
Ref	L	⚖	€
16106	52	370	**28,44**



PUNTAS PARA TORNILLOS INHEX

107-16

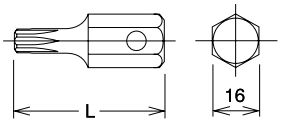
mm	pulgadas	L	⚖	Ref Métrica	€	Ref Pulgadas	€
10		40	46	**107-1610**	**7,71**		
12		40	52	**107-1612**	**7,71**		
13	**1/2**	40	56	**107-1613**	**7,71**	**107-161/2**	**8,66**
14	**9/16**	40	60	**107-1614**	**7,71**	**107-169/16**	**8,66**
16	**5/8**	40	69	**107-1616**	**7,71**	**107-165/8**	**8,61**
17		40	73	**107-1617**	**8,43**		
18		40	78	**107-1618**	**8,78**		
19	**3/4**	40	80	**107-1619**	**8,78**	**107-163/4**	**8,71**
22		40	97	**107-1622**	**10,32**		



PUNTAS TORX®

107-16(T)

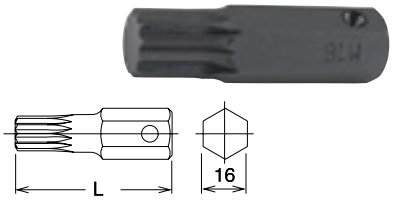
TORX®	L	⚖	Ref	€
T55	50	57	**107-16T55**	**13,43**
T60	50	64	**107-16T60**	**13,55**
T70	50	73	**107-16T70**	**13,55**



PUNTAS XZN

107-16(XZN)

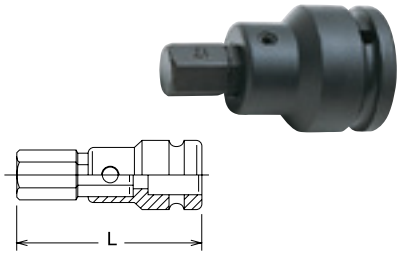
XZN	L	⚖	Ref	€
M14	60	83	**107-16M14**	**9,72**
M16	60	93	**107-16M16**	**9,69**
M18	60	103	**107-16M18**	**10,90**



VASOS CON PUNTA HEXAGONAL

16106-16

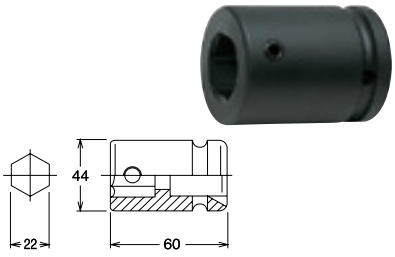
mm	pulgadas	L	⚖	Ref Métrica	€	Ref Pulgadas	€
10		76	416	**16106-1610**	**40,14**		
12		76	422	**16106-1612**	**40,14**		
13	**1/2**	76	426	**16106-1613**	**40,14**	**16106-161/2**	**41,21**
14	**9/16**	76	430	**16106-1614**	**40,14**	**16106-169/16**	**45,16**
16	**5/8**	76	439	**16106-1616**	**40,14**	**16106-165/8**	**41,21**
17		76	443	**16106-1617**	**41,23**		
18		76	448	**16106-1618**	**41,35**		
19	**3/4**	76	450	**16106-1619**	**41,35**	**16106-163/4**	**41,28**
22		76	473	**16106-1622**	**43,10**		



PORTA PUNTA

16107

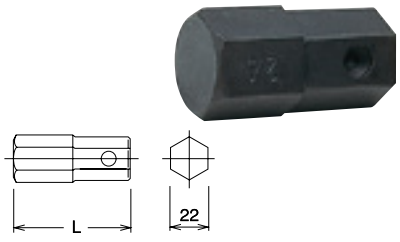
Ref	L	⚖	€
16107	60	530	**30,82**



PUNTAS PARA TORNILLOS INHEX

107-22

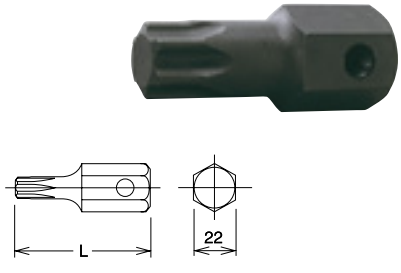
mm	L	⚖	Ref	€
17	50	120	**107-2217**	**10,32**
19	50	140	**107-2219**	**10,32**
22	50	162	**107-2222**	**10,32**
24	50	176	**107-2224**	**11,24**
27	50	200	**107-2227**	**13,00**
30	50	227	**107-2230**	**15,62**
32	50	243	**107-2232**	**16,59**



PUNTAS TORX®

107-22(T)

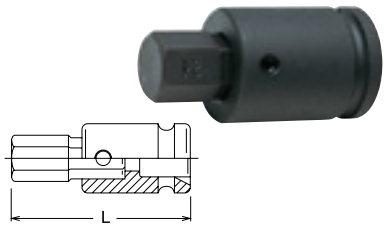
TORX®	L	⚖	Ref	€
T70	60	125	**107-22T70**	**24,09**
T80	60	141	**107-22T80**	**24,62**
T90	60	155	**107-22T90**	**24,73**
T100	60	170	**107-22T100**	**24,91**



VASOS CON PUNTA HEXAGONAL

16107-22

mm	L	⚖	Ref	€
19	88	670	**16107-2219**	**45,53**
22	88	692	**16107-2222**	**45,53**
24	88	706	**16107-2224**	**45,53**
27	88	730	**16107-2227**	**45,53**
30	88	757	**16107-2230**	**45,53**
32	93	783	**16107-2232**	**45,53**



ALARGADERAS

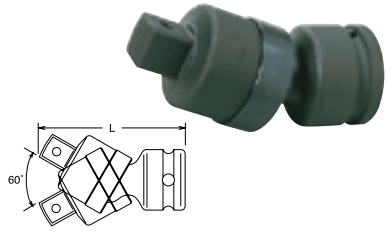
16760-150/-175/-200/-250/-330

Ref	L	⚖	€
16760-150	150	775	**47,64**
16760-175	175	870	**47,64**
16760-200	200	955	**59,46**
16760-250	250	1.150	**59,46**
16760-330	330	1.460	**62,14**

ARTICULACIÓN UNIVERSAL

16770

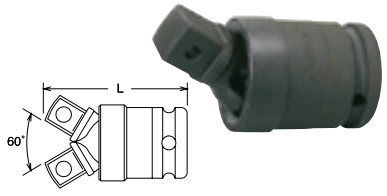
Ref	L	⚖	€
16770	106	790	**81,82**



ARTICULACIÓN UNIVERSAL

16771

Ref	L	⚖	€
16771	95	720	**58,30**



ADAPTADOR

16644A

Ref	L	⚖	€
16644A	54	310	**25,94**

⚠

凹3/4"x 凸1/2"

ADAPTADOR

16655A

Ref	L	⚖	€
16655A	55,5	336	**27,57**

⚠

凹3/4"x 凸5/8"

ADAPTADOR

16688A

Ref	L	⚖	€
16688A	62	435	**37,30**

凹3/4"x 凸1"

JUEGO DE VASOS

16201M-00

Ref				€
16201M	320 x 110 x 70	13	6.800	**316,35**

Vasos

16400M	○ 19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41

JUEGO DE VASOS

16201A

Ref				€
16201A	320 x 110 x 70	11	6.000	**301,20**

Vasos

16400A	○ 3/4, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2

JUEGO DE VASOS

16201M-01

Ref				€
○ **16201M-01**	320 x 110 x 70	13	6.000	**316,35**

Vasos

16401M	○ 19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41

JUEGO DE VASOS

16201A-01

Ref				€
16201A-01	320 x 110 x 70	11	5.400	**301,20**

Vasos

16401A	○ 3/4, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2

JUEGO DE VASOS

16245M

Ref				€
16245M	310 x 90 x 48	18	2.250	**517,86**

Vasos

16400M	○ 19, 21, 22, 24, 27, 29, 30, 32 33, 35, 36, 38, 41, 46, 50

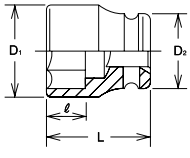
Accesorios

16760-175	
16760-330	

⬡ VASOS HEXAGONALES

18400M 18400A

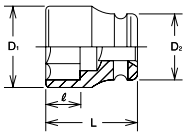
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17	**11/16**	32,8	54	12	57	579	**18400M17**	**35,50**	**18400A11/16**	**33,17**
18		34	54	13	57	586	**18400M18**			
19	**3/4**	35,3	54	13	57	590	**18400M19**	**28,99**	**18400A3/4**	**33,17**
21	**13/16**	37,8	54	15	57	605	**18400M21**	**28,99**	**18400A13/16**	**33,17**
22	**7/8**	39	54	15	57	620	**18400M22**	**28,99**	**18400A7/8**	**33,17**
23		40,3	54	16	57	615	**18400M23**	**28,99**		
24	**15/16**	41,5	54	16	57	627	**18400M24**	**30,27**	**18400A15/16**	**33,17**
25	**1**	42,8	54	16	57	620	**18400M25**	**30,27**	**18400A1**	**34,61**
26		44	54	16	57	640	**18400M26**	**30,27**		
27	**1-1/16**	45,3	54	16	57	627	**18400M27**	**30,27**	**18400A1-1/16**	**34,61**
28		46,5	54	16	57	640	**18400M28**	**30,27**		
29	**1-1/8**	47,8	54	18	57	657	**18400M29**	**30,27**	**18400A1-1/8**	**34,61**
30	**1-3/16**	49	54	21	62	657	**18400M30**	**30,27**	**18400A1-3/16**	**34,61**
31		50,3	54	21	62	687	**18400M31**	**30,27**		
32	**1-1/4**	51,5	54	21	62	685	**18400M32**	**30,27**	**18400A1-1/4**	**34,61**
33		52,8	54	21	62	685	**18400M33**	**30,27**		
34	**1-5/16**	54	54	21	62	690	**18400M34**	**33,65**	**18400A1-5/16**	**34,61**
35	**1-3/8**	55,3	54	21	62	710	**18400M35**	**33,65**	**18400A1-3/8**	**34,61**
36		56,5	54	21	62	712	**18400M36**	**33,65**		
37	**1-7/16**	57,8	54	21	62	735	**18400M37**	**33,65**	**18400A1-7/16**	**34,61**
38	**1-1/2**	59	54	25	66	720	**18400M38**	**33,65**	**18400A1-1/2**	**34,61**
39		60,3	54	25	66	820	**18400M39**	**39,89**		
40	**1-9/16**	61,5	54	25	66	850	**18400M40**	**39,89**	**18400A1-9/16**	**38,45**
41	**1-5/8**	62,8	54	25	66	850	**18400M41**	**39,89**	**18400A1-5/8**	**39,89**
42		64	54	25	66	905	**18400M42**	**39,89**		
43	**1-11/16**	65,3	54	27	68	977	**18400M43**	**43,39**	**18400A1-11/16**	**43,39**
44		66,5	54	27	68	970	**18400M44**	**43,39**		
45	**1-3/4**	67,8	54	27	68	963	**18400M45**	**45,70**	**18400A1-3/4**	**44,70**
46	**1-13/16**	69	54	29	70	1.010	**18400M46**	**45,70**	**18400A1-13/16**	**45,70**
47		70,3	66	36	70	1.235	**18400M47**	**47,29**		
48	**1-7/8**	71,5	66	35	70	1.228	**18400M48**	**48,66**	**18400A1-7/8**	**48,66**
	1-15/16	72,8	66	35	70	1.238			**18400A1-15/16**	**52,41**
50		74	66	35	70	1.302	**18400M50**	**51,58**		
	2	75,3	66	35	70	1.297			**18400A2**	**64,09**
52	**2-1/6**	76,5	66	40	75	1.423	**18400M52**	**63,84**	**18400A2-1/16**	**63,84**
54	**2-1/8**	79	66	40	75	1.492	**18400M54**	**67,62**	**18400A2-1/8**	**67,62**
55	**2-3/16**	80,3	66	39	75	1.501	**18400M55**	**67,62**	**18400A2-3/16**	**67,62**
56		81,5	66	39	75	1.520	**18400M56**	**71,33**		
	2-1/4	82,8	66	39	75	1.583			**18400A2-1/4**	**73,09**
58	**2-5/16**	84	66	39	75	1.586	**18400M58**	**73,77**	**18400A2-5/16**	**73,77**
60	**2-3/8**	86,5	66	39	75	1.651	**18400M60**	**78,29**	**18400A2-3/8**	**88,35**
62	**2-7/16**	89	66	38	75	1.685	**18400M62**	**97,71**	**18400A2-7/16**	**97,71**
63		90,3	66	38	75	1.661	**18400M63**	**97,71**		
	2-1/2	91,5	66	38	75	1.780			**18400A2-1/2**	**100,35**
65	**2-9/16**	92,8	66	38	75	1.915	**18400M65**	**100,35**	**18400A2-9/16**	**100,35**
67	**2-5/8**	95,3	66	38	75	1.872	**18400M67**	**112,07**	**18400A2-5/8**	**119,62**
68	**2-11/16**	96,5	66	37	75	1.877	**18400M68**	**112,07**	**18400A2-11/16**	**127,45**
70	**2-3/4**	99	66	37	75	1.944	**18400M70**	**112,83**	**18400A2-3/4**	**127,45**
	2-13/16	101,5	86	37	80	2.705			**18400A2-13/16**	**127,45**
	2-7/8	102,8	86	38	80	2.629			**18400A2-7/8**	**144,42**
75	**2-15/16**	105,3	86	37	80	2.675	**18400M75**	**144,42**	**18400A2-15/16**	**144,42**
	3	106,5	86	37	80	2.705			**18400A3**	**163,28**
77		107,8	86	37	80	2.890	**18400M77**	**167,91**		
	3-1/16	109	86	42	85	2.967			**18400A3-1/16**	**174,37**
80	**3-1/8**	111,5	86	41	85	2.996	**18400M80**	**167,91**	**18400A3-1/8**	**174,45**
	3-1/4	115,3	86	44	90	3.328			**18400A3-1/4**	**212,40**
85		117,8	86	37	90	3.378	**18400M85**	**222,46**		
	3-3/8	119	86	36	90	3.389			**18400A3-3/8**	**222,46**
90	**3-1/2**	124	86	40	95	3.871	**18400M90**	**227,62**	**18400A3-1/2**	**254,25**
95	**3-3/4**	130,3	86	43	100	4.500	**18400M95**	**298,97**	**18400A3-3/4**	**28,99**
	3-7/8	135,3	86	47	105	5.000			**18400A3-7/8**	**33,17**
100		136,5	86	47	105	5.000	**18400M100**	**387,37**		
	4	137,8	86	46	105	5.152			**18400A4**	**334,46**



○ VASOS HEXAGONALES DE PARED DELGADA

18401M 18401A

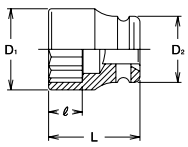
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17	**11/16**	29,8	53	12	57	481	**18401M17**	**42,16**	**18401A11/16**	**43,21**
18		31	53	13	57	488	**18401M18**	**42,16**		
19	**3/4**	32,3	53	13	57	492	**18401M19**	**42,16**	**18401A3/4**	**43,21**
20		33,5	53	14	57	505	**18401M20**	**42,16**		
21	**13/16**	34,8	53	15	57	512	**18401M21**	**42,16**	**18401A13/16**	**43,21**
22	**7/8**	36	53	15	57	520	**18401M22**	**42,16**	**18401A7/8**	**43,21**
24	**15/16**	38,5	53	16	57	520	**18401M24**	**42,16**	**18401A15/16**	**43,21**
26		41	53	16	57	533	**18401M26**	**42,16**		
27	**1-1/16**	42,3	53	16	57	540	**18401M27**	**42,16**	**18401A1-1/16**	**43,21**
29		44,8	53	18	57	560	**18401M29**	**42,16**		
30	**1-3/16**	46	53	21	62	572	**18401M30**	**42,16**	**18401A1-3/16**	**43,21**
32	**1-1/4**	48,5	53	21	62	600	**18401M32**	**42,16**	**18401A1-1/4**	**43,21**
33		49,8	53	21	62	613	**18401M33**	**42,16**		
35	**1-3/8**	52,3	53	21	62	630	**18401M35**	**42,16**	**18401A1-3/8**	**43,21**
36		53,5	53	21	62	635	**18401M36**	**44,49**		
38	**1-1/2**	56	53	25	66	705	**18401M38**	**50,35**	**18401A1-1/2**	**53,32**
41	**1-5/8**	59,8	53	25	66	740	**18401M41**	**55,27**	**18401A1-5/8**	**58,89**
42		61	53	25	66	803	**18401M42**	**55,93**		
46	**1-13/16**	66	53	29	70	900	**18401M46**	**59,14**	**18401A1-13/16**	**62,55**
47		67,3	65	36	70	1.153	**18401M47**	**59,14**		
50		71	65	35	70	1.235	**18401M50**	**75,97**		



○ VASOS BIHEXAGONALES

18405M 18405A

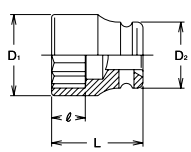
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
	3/4	35,3	54	13	57	590			**18405A3/4**	**34,77**
	7/8	39	54	15	57	620			**18405A7/8**	**34,77**
24		41,5	54	16	57	627	**18405M24**	**49,71**		
	1	42,8	54	16	57	620			**18405A1**	**34,77**
27		45,3	54	16	57	607	**18405M27**	**49,71**		
	1-1/8	47,8	54	18	57	660			**18405A1-1/8**	**34,77**
30	**1-3/16**	49	54	21	62	657	**18405M30**	**55,37**	**18405A1-3/16**	**34,77**
32	**1-1/4**	51,5	54	21	62	685	**18405M32**	**55,37**	**18405A1-1/4**	**34,77**
33		52,8	54	21	62	690	**18405M33**	**55,37**		
35	**1-3/8**	55,3	54	21	62	690	**18405M35**	**55,37**	**18405A1-3/8**	**34,77**
36		56,5	54	21	62	692	**18405M36**	**55,37**		
	1-7/16	57,8	54	21	62	735			**18405A1-7/16**	**45,81**
38	**1-1/2**	59	54	25	66	700	**18405M38**	**56,92**	**18405A1-1/2**	**50,34**
40		61,5	54	25	66	830	**18405M40**	**65,50**		
41		62,8	54	25	66	905	**18405M41**	**65,50**		
	1-3/4	67,8	54	27	68	970			**18405A1-3/4**	**54,62**
46		69	54	29	70	990	**18405M46**	**71,51**		
	1-15/16	72,8	66	35	70	1.208			**18405A1-15/16**	**63,82**
50		74	66	35	70	1.258	**18405M50**	**87,71**		
55		80,3	66	39	75	1.475	**18405M55**	**105,84**		
56		81,5	66	39	75	1.493	**18405M56**	**114,43**		
60		86,5	66	39	75	1.621	**18405M60**	**138,21**		
65		92,8	66	38	75	1.885	**18405M65**	**177,35**		
70		99	54	37	75	1.625	**18405M70**	**177,35**		
75		105,3	86	37	80	2.675	**18405M75**	**177,35**		
80		111,5	86	41	85	2.996	**18405M80**	**177,35**		



○ VASOS PARA EJES CARDAN

18405M (D)

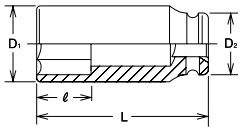
mm	D1	D2	ℓ	L	⚖	Ref	€
50(D68)	68	54	35	70	890	**18405MD50x68**	**76,92**
55(D76)	76	54	39	75	1.130	**18405MD55x76**	**83,64**
65(D87)	87	54	38	75	1.344	**18405MD65x87**	**116,40**



○ VASOS HEXAGONALES LARGOS

18300M 18300A

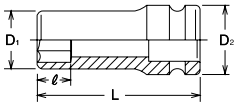
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17	**11/16**	32,8	54	17	108	1.000	**18300M17**	**44,38**	**18300A11/16**	**50,05**
19	**3/4**	35,3	54	19	108	1.010	**18300M19**	**44,38**	**18300A3/4**	**50,05**
21		37,8	54	21	108	1.010	**18300M21**	**43,09**		
22	**7/8**	39	54	22	108	1.010	**18300M22**	**44,38**	**18300A7/8**	**50,05**
23		40,3	54	23	108	1.063	**18300M23**	**44,38**		
24	**15/16**	41,5	54	24	108	1.060	**18300M24**	**44,38**	**18300A15/16**	**50,05**
25	**1**	42,8	54	25	108	1.085	**18300M25**	**44,38**	**18300A1**	**50,05**
26		44	54	26	108	1.133	**18300M26**	**44,38**		
27	**1-1/16**	45,3	54	27	108	1.125	**18300M27**	**46,75**	**18300A1-1/16**	**50,05**
28		46,5	54	28	108	1.140	**18300M28**	**46,75**		
29	**1-1/8**	47,8	54	29	108	1.120	**18300M29**	**46,75**	**18300A1-1/8**	**50,05**
30	**1-3/16**	49	54	30	108	1.179	**18300M30**	**47,04**	**18300A1-3/16**	**50,05**
31		50,3	54	31	108	1.125	**18300M31**	**47,04**		
32	**1-1/4**	51,5	54	32	108	1.200	**18300M32**	**47,04**	**18300A1-1/4**	**50,05**
33		52,8	54	33	108	1.200	**18300M33**	**49,01**		
34	**1-5/16**	54	54	34	108	1.280	**18300M34**	**51,21**	**18300A1-5/16**	**50,05**
35	**1-3/8**	55,3	54	35	108	1.300	**18300M35**	**51,21**	**18300A1-3/8**	**51,21**
36		56,5	54	36	108	1.280	**18300M36**	**51,21**		
37	**1-7/16**	57,8	54	37	108	1.320	**18300M37**	**57,54**	**18300A1-7/16**	**51,21**
38	**1-1/2**	59	54	38	108	1.423	**18300M38**	**57,54**	**18300A1-1/2**	**57,54**
40	**1-9/16**	61,5	54	38	108	1.415	**18300M40**	**61,39**	**18300A1-9/16**	**61,39**
41	**1-5/8**	62,8	54	38	108	1.450	**18300M41**	**61,39**	**18300A1-5/8**	**61,39**
42		64	54	38	108	1.550	**18300M42**	**62,46**		
	1-11/16	65,3	54	38	108	1.577			**18300A1-11/16**	**62,46**
44		66,5	54	38	108	1.636	**18300M44**	**68,21**		
45	**1-3/4**	67,8	54	38	108	1.660	**18300M45**	**72,23**	**18300A1-3/4**	**68,21**
46	**1-13/16**	69	54	38	108	1.680	**18300M46**	**72,23**	**18300A1-13/16**	**72,23**
48	**1-7/8**	71,5	66	67	108	1.729	**18300M48**	**79,10**	**18300A1-7/8**	**79,10**
	1-15/16	72,8	66	67	108	1.799			**18300A1-15/16**	**79,10**
50		74	66	66	108	1.879	**18300M50**	**73,01**		
	2	75,3	66	66	108	1.834			**18300A2**	**85,18**
52	**2-1/16**	76,5	66	65	108	2.000	**18300M52**	**85,18**	**18300A2-1/6**	**85,18**
	2-1/8	79	66	64	108	2.044			**18300A2-1/8**	**94,91**
55	**2-3/16**	80,3	66	63	108	2.088	**18300M55**	**87,62**	**18300A2-3/16**	**102,21**
	2-1/4	82,8	66	62	108	2.153			**18300A2-1/4**	**102,82**
	2-5/16	84	66	61	108	2.225			**18300A2-5/16**	**106,79**
60	**2-3/8**	86,5	66	60	108	2.290	**18300M60**	**118,69**	**18300A2-3/8**	**118,69**
	2-7/16	89	66	59	108	2.364			**18300A2-7/16**	**158,16**
	2-1/2	91,5	66	58	108	2.581			**18300A2-1/2**	**158,16**
65	**2-9/16**	92,8	66	58	108	2.643	**18300M65**	**158,16**	**18300A2-9/16**	**174,00**
	2-5/8	95,3	66	56	108	2.711			**18300A2-5/8**	**174,00**
70	**2-3/4**	99	66	55	108	2.792	**18300M70**	**174,00**	**18300A2-3/4**	**174,00**
	2-7/8	102,8	86	53	108	3.600			**18300A2-7/8**	**242,33**
75	**2-15/16**	105,3	86	52	108	3.646	**18300M75**	**255,72**	**18300A2-15/16**	**255,72**
	3	106,5	86	51	108	3.677			**18300A3**	**255,72**
	3-1/16	109	86	50	108	3939			**18300A3-1/16**	**255,72**
80	**3-1/8**	111,5	86	49	108	4.039	**18300M80**	**287,36**	**18300A3-1/8**	**255,72**
	3-3/16	112,8	86	48	108	4.170			**18300A3-3/16**	**320,69**
85		117,8	86	59	108	4.000	**18300M85**	**387,38**		
90		124	86	57	108	4.200	**18300M90**	**387,38**		
95		130,3	86	55	108	4.400	**18300M95**	**453,23**		



VASOS HEXAGONALES LARGOS DE PARED DELGADA

18301M **18301A**

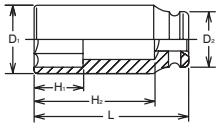
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17	**11/16**	29,8	53	17	108	692	**18301M17**	**50,25**	**18301A11/16**	**53,61**
18		31	53	18	108	710	**18301M18**	**50,25**		
19	**3/4**	32,3	53	19	108	725	**18301M19**	**50,25**	**18301A3/4**	**53,61**
20		33,5	53	20	108	740	**18301M20**	**50,25**		
21	**13/16**	34,8	53	21	108	750	**18301M21**	**50,25**	**18301A13/16**	**53,61**
22	**7/8**	36	53	22	108	770	**18301M22**	**50,25**	**18301A7/8**	**53,61**
23		37,3	53	23	108	780	**18301M23**	**50,25**		
24	**15/16**	38,5	53	24	108	800	**18301M24**	**52,47**	**18301A15/16**	**53,61**
	1	39,8	53	25	108	828			**18301A1**	**52,47**
26		41	53	26	108	830	**18301M26**	**52,47**		
27	**1-1/16**	42,3	53	27	108	860	**18301M27**	**52,47**	**18301A1-1/16**	**52,47**
29	**1-1/8**	44,8	53	29	108	880	**18301M29**	**52,47**	**18301A1-1/8**	**52,47**
30	**1-3/16**	46	53	30	108	910	**18301M30**	**54,01**	**18301A1-3/16**	**60,00**
32	**1-1/4**	48,5	53	32	108	970	**18301M32**	**54,01**	**18301A1-1/4**	**61,75**
33		49,8	53	33	108	980	**18301M33**	**54,01**		
34	**1-5/16**	51	53	34	108	980	**18301M34**	**54,01**	**18301A1-5/16**	**61,75**
35	**1-3/8**	52,3	53	35	108	986	**18301M35**	**54,01**	**18301A1-3/8**	**71,26**
36		53,5	53	36	108	992	**18301M36**	**54,01**		
	1-7/16	54,8	53	37	108	1.000			**18301A1-7/16**	**71,26**
38	**1-1/2**	56	53	38	108	1.025	**18301M38**	**60,70**	**18301A1-1/2**	**71,26**
39		57,3	53	38	108	1.130	**18301M39**	**60,70**		
41	**1-5/8**	59,8	53	38	108	1.213	**18301M41**	**71,26**	**18301A1-5/8**	**71,26**
42		61	53	38	108	1.245	**18301M42**	**71,26**		
43	**1-11/16**	62,3	53	38	108	1.400	**18301M43**	**71,26**	**18301A1-11/16**	**71,26**
	1-3/4	64,8	53	38	108	1.360			**18301A1-3/4**	**71,26**
46	**1-13/16**	66	53	38	108	1.400	**18301M46**	**92,04**	**18301A1-13/16**	**97,12**
50		71	65	38	108	1.746	**18301M50**	**92,04**		
55		77,3	65	62	108	1.963	**18301M55**	**92,04**		
60		83,5	65	59	108	2.220	**18301M60**	**96,56**		
65		89,8	65	56	108	2.689	**18301M65**	**96,56**		
70		96	53	55	108	2.310	**18301M70**	**108,88**		



VASOS HEXAGONALES MEDIANOS DE PARED DELGADA

18301X

mm	D1	D2	H1	H2	L	⚖	Ref	€
17	29,8	53	17	48	80	635	**18301X17**	**72,29**
19	32,3	53	19	48	80	655	**18301X19**	**72,29**
21	34,8	53	21	48	80	680	**18301X21**	**72,29**
22	36,0	53	22	48	80	686	**18301X22**	**72,29**
24	38,5	53	24	48	80	693	**18301X24**	**72,29**
27	42,3	53	27	48	80	745	**18301X27**	**72,29**
30	46,0	53	30	48	80	761	**18301X30**	**72,29**
32	48,5	53	32	53	85	770	**18301X32**	**72,29**
33	49,8	53	33	53	85	781	**18301X33**	**72,29**
35	52,3	53	35	53	85	800	**18301X35**	**72,29**
36	53,5	53	36	52	85	808	**18301X36**	**72,29**
38	56,0	53	38	52	85	865	**18301X38**	**73,22**
41	59,8	53	38	51	85	937	**18301X41**	**73,22**
46	66,0	53	38	50	85	1032	**18301X46**	**73,22**
50	71,0	53	55	-	85	1220	**18301X50**	**82,29**



VASOS DE TUERCA DE RUEDA INTERNA

PW8P

mm	D1	D2	ℓ	L	⚖	Ref	€
35x17	50	54	13	83	935	**PW8P3517**	**75,50**
38x20	55	54	14	83	1.038	**PW8P3820**	**82,29**
41x19	58	54	14	87	1.100	**PW8P4119**	**83,88**
41x21	58	54	14	87	1.089	**PW8P4121**	**83,52**

JUEGO DE VASOS DE TUERCA DE RUEDA INTERNA

PW8P/4

Ref			⚖	€
PW8P74	240 x 95 x 70	4	4.250	**325,52**

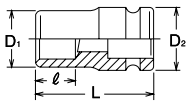
Vasos

PW8P	○ 35x17, 38x20, 41x19, 41x21

VASOS DE TUERCA DE RUEDA INTERNA

18317M 18317A

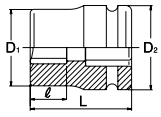
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
17		40	54	22,5	72	682	**18317M17**	**83,80**		
17,5		40	54	22,5	72	677	**18317M17,5**	**83,80**		
19		43	54	22,5	72	705	**18317M19**	**83,80**		
20		45	54	22,5	72	723	**18317M20**	**83,80**		
20,5		45	54	22,5	72	723	**18317M20,5**	**83,80**		
21	**13/16**	45	54	22,5	72	703	**18317M21**	**83,80**	**18317A13/16**	**87,60**
22		45	54	22,5	72	696	**18317M22**	**83,80**		



VASOS DE TUERCA DE RUEDA TRASERA

PS8

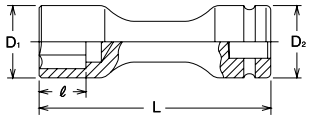
mm	D1	D2	ℓ	L	⚖	Ref	€
17	40	54	19	60	621	**PS817**	**61,67**
19	43	54	19	60	648	**PS819**	**61,67**
20	45	54	21	62	687	**PS820**	**61,67**
21	45	54	23	64	696	**PS821**	**61,67**



VASOS HEXAGONALES DE PARED DELGADA

18104M

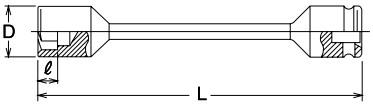
mm	D1	D2	ℓ	L	⚖	Ref Métrica	€
24	41,5	54	24	170	1.327	**18104M24**	**88,12**
27	45,3	54	27	170	1.375	**18104M27**	**88,12**
28	46,5	54	28	170	1.390	**18104M28**	**88,12**
30	49	54	30	170	1.407	**18104M30**	**88,12**
32	51,5	54	32	170	1.537	**18104M32**	**96,45**
33	62,8	54	33	170	1.590	**18104M33**	**96,45**
34	54	54	34	170	1.670	**18104M34**	**102,62**
36	56,5	54	36	170	1.800	**18104M36**	**102,62**



BARRAS DE TORSIÓN (SOLAMENTE PARA APRIETE)*

18101M

Nm	D1	D2	ℓ	L	⚖	Ref	€
24x350Nm	43,5	54	24	300	1.380	**18101M24x350**	**100,65**
27x350Nm	47	54	27	300	1.401	**18101M27x350**	**112,76**
27x450Nm	47	54	27	300	1.579	**18101M27x450**	**112,76**
30x500Nm	51	54	30	300	1.563	**18101M30x500**	**116,74**
32x450Nm	53,5	54	32	300	1.600	**18101M32x450**	**116,74**
32x550Nm	53,5	54	32	300	1.602	**18101M32x550**	**116,74**
32x600Nm	53,5	54	32	300	1.602	**18101M32x600**	**116,74**
32x700Nm	51,5	54	32	300	1.630	**18101M32x700**	**116,74**
33x550Nm	55	54	33	300	1.638	**18101M33x550**	**116,74**
33x600Nm	55	54	33	300	1.638	**18101M33x600**	**116,74**
36x600Nm	58,5	54	36	300	1.718	**18101M36x600**	**135,36**

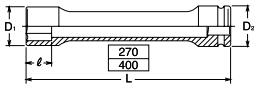


* Como el par puede variar según el tipo y el estado de la llave de impacto, se recomienda utilizar una llave dinamométrica.

VASOS DE IMPACTO PARA RUEDA EXTRA LARGOS

18102M-270/-400

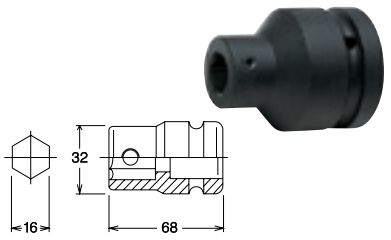
mm	D1	D2	ℓ	⚖ 270	⚖ 400	Ref L270	€	Ref L400	€
23	37,3	54	23	1.627	1.865	**18102M-27023**	**135,61**	**18102M-40023**	**165,10**
24	38,5	54	24	1.628	1.869	**18102M-27024**	**135,61**	**18102M-40024**	**165,10**
26	41	54	26	1.667	1.925	**18102M-27026**	**135,61**	**18102M-40026**	**165,10**
27	42,3	54	27	1.680	2.272	**18102M-27027**	**135,61**	**18102M-40027**	**165,10**
29	44,8	54	29	1.680	2.278	**18102M-27029**	**135,61**	**18102M-40029**	**165,10**
30	46	54	30	1.680	2.266	**18102M-27030**	**131,66**	**18102M-40030**	**165,10**
32	48,5	54	32	1.680	2.322	**18102M-27032**	**143,56**	**18102M-40032**	**165,10**
33	49,8	54	32	1.700	2.320	**18102M-27033**	**143,56**	**18102M-40033**	**167,61**
34	51	54	32	1.750	2.341	**18102M-27034**	**143,56**	**18102M-40034**	**167,61**
36	53,5	54	32	1.750	2.442	**18102M-27036**	**143,56**	**18102M-40036**	**167,61**
38	56	54	32	1.822	2.250	**18102M-27038**	**153,11**	**18102M-40038**	**175,97**
41	60	54	32	1.800		**18102M-27041**	**177,36**		



PORTA PUNTA

18106

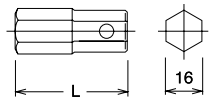
Ref	L	⚖	€
18106	68	640	**45,06**



PUNTAS PARA TORNILLOS INHEX

107-16

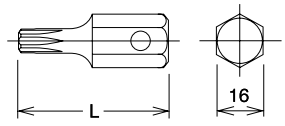
mm	pulgadas	L	⚖	Ref Métrica	€	Ref Pulgadas	€
10	**3/8**	40	46	**107-1610**	**7,71**	**107-163/8**	**8,66**
12		40	52	**107-1612**	**7,71**		
13	**1/2**	40	56	**107-1613**	**7,71**	**107-161/2**	**8,66**
14	**9/16**	40	60	**107-1614**	**7,71**	**107-169/16**	**8,66**
16	**5/8**	40	69	**107-1616**	**7,71**	**107-165/8**	**8,66**
17		40	73	**107-1617**	**8,43**		
18		40	78	**107-1618**	**8,78**		
19	**3/4**	40	80	**107-1619**	**8,78**	**107-163/4**	**8,70**
22		40	97	**107-1622**	**10,32**		



PUNTAS TORX®

107-16(T)

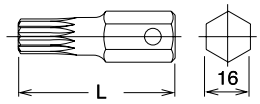
TORX®	L	⚖	Ref	€
T55	50	57	**107-16T55**	**13,43**
T60	50	64	**107-16T60**	**13,55**
T70	50	73	**107-16T70**	**13,55**



PUNTAS XZN

107-16(XZN)

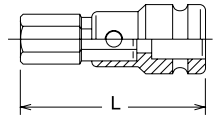
XZN	L	⚖	Ref	€
M14	60	83	**107-16M14**	**9,72**
M16	60	93	**107-16M16**	**9,69**
M18	60	103	**107-16M18**	**10,90**



VASOS CON PUNTA HEXAGONAL

18106-16

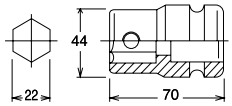
mm	pulgadas	L	⚖	Ref Métrica	€	Ref Pulgadas	€
10		92	686	**18106-1610**	**58,71**		
12		92	692	**18106-1612**	**58,71**		
13	**1/2**	92	696	**18106-1613**		**18106-161/2**	**59,64**
14	**9/16**	92	700	**18106-1614**	**58,71**	**18106-169/16**	**59,64**
16	**5/8**	92	709	**18106-1616**	**58,71**	**18106-165/8**	**59,70**
17		92	713	**18106-1617**	**59,60**		
18		92	718	**18106-1618**	**59,80**		
19	**3/4**	92	764	**18106-1619**	**59,81**	**18106-163/4**	**59,71**
22		92	781	**18106-1622**	**61,35**		



PORTA PUNTA

18107

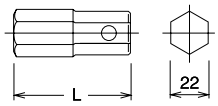
Ref	L	⚖	€
18107	70	770	**45,06**



PUNTAS PARA TORNILLOS INHEX

107-22

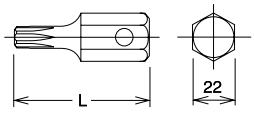
mm	L	⚖	Ref	€
17	50	120	**107-2217**	**10,32**
19	50	140	**107-2219**	**10,32**
22	50	162	**107-2222**	**10,32**
24	50	176	**107-2224**	**11,24**
27	50	200	**107-2227**	**13,00**
30	50	227	**107-2230**	**15,62**
32	50	243	**107-2232**	**16,59**



PUNTAS TORX®

107-22 (T)

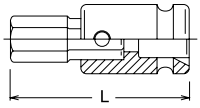
TORX®	L	⚖	Ref	€
T70	60	125	**107-22T70**	**24,09**
T80	60	141	**107-22T80**	**24,62**
T90	60	155	**107-22T90**	**24,73**
T100	60	170	**107-22T100**	**24,91**



VASOS CON PUNTA HEXAGONAL

18107-22

mm	L	⚖	Ref	€
19	98	910	**18107-2219**	**55,35**
22	98	932	**18107-2222**	**55,35**
24	98	946	**18107-2224**	**56,29**
27	98	986	**18107-2227**	**58,04**
30	98	1.008	**18107-2230**	**60,64**
32	103	1.029	**18107-2232**	**61,65**



ALARGADERAS

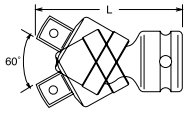
18760-175/-250/-330

Ref	L	⚖	€
18760-175	175	1.400	**75,26**
18760-200	200	1.580	**89,82**
18760-250	250	1.885	**89,82**
18760-330	330	2.380	**105,59**

ARTICULACIÓN UNIVERSAL

18770

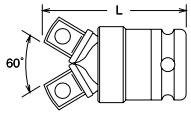
Ref	L	⚖	€
18770	127	1.210	**125,88**



ARTICULACIÓN UNIVERSAL

18771

Ref	L	⚖	€
18771	115	1.210	**125,95**



ADAPTADOR

18866A-65/200

Ref	L	⚖	€
18866A-65	66,5	580	**46,33**
18866A-200	200	1.100	**70,21**

⚠

凹1"x 凸3/4"

ADAPTADOR

18877A

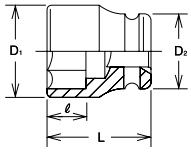
Ref	L	⚖	€
18877A	80	935	**86,57**

凹1"x 凸1-1/2"

⬡ VASOS HEXAGONALES

17400M 17400A

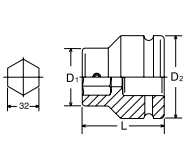
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
36		62	86	20	77	2.126	**17400M36**			
41	**1-5/8**	68	86	22	80	2.346	**17400M41**		**17400A1-5/8**	
42		70	86	22	80	2.330	**17400M42**			
	1-11/16	71	86	22	80	2.300			**17400A1-11/16**	
	1-3/4	73	86	22	80	2.290			**17400A1-3/4**	
46	**1-13/16**	74	86	26	84	2.360	**17400M46**		**17400A1-13/16**	
	1-7/8	77	86	26	84	2.440			**17400A1-7/8**	
50	**1-15/16**	79	86	27	84	2.400	**17400M50**		**17400A1-15/16**	
	2	80	86	27	84	2.420			**17400A2**	
52	**2-1/16**	82	86	38	84	2.340	**17400M52**		**17400A2-1/16**	
54	**2-1/8**	84	86	38	84	2.340	**17400M54**		**17400A2-1/8**	
55	**2-3/16**	85	86	44	90	2.450	**17400M55**		**17400A2-3/16**	
	2-1/4	87	86	43	90	2.460			**17400A2-1/4**	
58	**2-5/16**	88	86	44	90	2.510	**17400M58**		**17400A2-5/16**	
60	**2-3/8**	91	86	43	90	2.640	**17400M60**		**17400A2-3/8**	
	2-7/16	93	86	47	95	2.860			**17400A2-7/16**	
	2-1/2	96	86	47	95	3.000			**17400A2-1/2**	
65	**2-9/16**	97	86	48	95	3.050	**17400M65**		**17400A2-9/16**	
	2-5/8	100	86	51	100	3.300			**17400A2-5/8**	
	2-11/16	101	86	51	100	3.300			**17400A2-11/16**	
70	**2-3/4**	103	86	52	100	3.350	**17400M70**		**17400A2-3/4**	
	2-13/16	105	86	55	105	3.670			**17400A2-13/16**	
	2-7/8	106	86	55	105	3.610			**17400A2-7/8**	
75	**2-15/16**	108	86	56	105	3.700	**17400M75**		**17400A2-15/16**	
	3	108	86	55	105	3.680			**17400A3**	
80	**3-1/8**	115	86	60	110	4.240	**17400M80**		**17400A3-1/8**	
	3-1/4	118	86	59	110	4.370			**17400A3-1/4**	
85		122	86	60	110	4.550	**17400M85**			
	3-3/8	123	86	60	110	4.570			**17400A3-3/8**	
90	**3-1/2**	128	86	60	112	4.840	**17400M90**		**17400A3-1/2**	
	3-5/8	132	86	52	112	5.500			**17400A3-5/8**	
95	**3-3/4**	135	127	52	112	7.660	**17400M95**		**17400A3-3/4**	
100	**3-7/8**	140	127	53	115	7.700	**17400M100**		**17400A3-7/8**	
105	**4**	146	127	57	120	8.000	**17400M105**		**17400A4**	
	4-1/8	146	127	57	120	8.000			**17400A4-1/8**	
110	**4-1/4**	153	127	60	124	9.200	**17400M110**		**17400A4-1/4**	
115	**4-1/2**	160	127	62	128	10.700	**17400M115**		**17400A4-1/2**	
120	**4-5/8**	166	127	64	132	11.200	**17400M120**		**17400A4-5/8**	
	4-3/4	168	127	64	132	11.200			**17400A4-3/4**	
125	**4-7/8**	173	127	67	136	13.000	**17400M125**		**17400A4-7/8**	
130	**5**	180	127	69	140	14.200	**17400M130**		**17400A5**	
135	**5-1/4**	186	127	73	145	14.940	**17400M135**		**17400A 5-1/4**	
140		190	127	76	150	15.600	**17400M140**			
150		200	127	83	160	16.500	**17400M150**			
	6	205	127	88	165	16.500			**17400A6**	
	6-1/2	205	127	94	175	17.500			**17400A6-1/2**	



⬡ PORTA PUNTA

17108

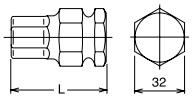
Ref	D1	D2	L	⚖	€
17108	**60**	**86**	85	2.200	**234,18**



⬡ PUNTAS PARA TORNILLOS INHEX

107-32

mm	L	⚖	Ref	€
19	60	300	**107-32 19**	**258,65**
22	60	320	**107-32 22**	**258,65**
24	60	330	**107-32 24**	**258,65**
27	60	360	**107-32 27**	**258,65**
30	60	390	**107-32 30**	**258,65**
32	60	410	**107-32 32**	**258,65**
36	60	460	**107-32 36**	**264,17**



ALARGADERAS

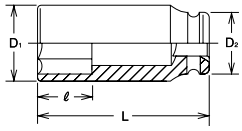
17760-175/-250/-330

Ref	L	⚖	€
17760-175	175	3.300	**411,19**
17760-250	250	4.500	**472,77**
17760-330	330	5.200	**525,91**

⬡ VASOS HEXAGONALES LARGOS

17300M 17300A

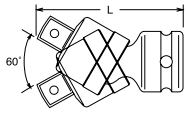
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
36		63	86	26	115	2.800	**17300M36**	**501,72**		
41	**1-5/8**	68	86	27	115	3.080	**17300M41**	**501,72**	**17300A1-5/8**	**540,68**
42		70	86	27	115	3.140	**17300M42**	**501,73**		
	1-11/16	71	86	27	115	3.180			**17300A1-11/16**	**540,68**
	1-3/4	72	86	27	115	3.210			**17300A1-3/4**	**540,68**
46	**1-13/16**	74	86	28	125	3.440	**17300M46**	**554,34**	**17300A1-13/16**	**597,34**
	1-7/8	77	86	28	125	3.550			**17300A1-7/8**	**597,34**
	1-15/16	78	86	28	125	3.590			**17300A1-15/16**	**627,63**
50		79	86	30	135	3.840	**17300M50**	**582,39**		
	2	80	86	30	135	3.916			**17300A2**	**632,38**
	2-1/16	82	86	30	135	4.030			**17300A2-1/16**	**632,38**
54	**2-1/8**	84	86	30	135	4.160	**17300M54**	**586,82**	**17300A2-1/8**	**632,38**
55		85	86	33	135	4.130	**17300M55**	**586,82**		
	2-3/16	86	86	33	135	4.200			**17300A2-3/16**	**632,38**
	2-1/4	87	86	33	135	4.160			**17300A2-1/4**	**632,38**
60	**2-3/8**	91	86	35	135	4.370	**17300M60**	**586,82**	**17300A2-3/8**	**632,38**
	2-7/16	93	86	35	135	4.490			**17300A2-7/16**	**662,02**
	2-1/2	95	86	35	135	4.630			**17300A2-1/2**	**662,02**
65	**2-9/16**	97	86	38	145	5.260	**17300M65**	**628,43**	**17300A2-9/16**	**677,20**
	2-5/8	98	86	38	145	5.320			**17300A2-5/8**	**677,20**
	2-11/16	101	86	38	145	5.670			**17300A2-11/16**	**677,20**
70	**2-3/4**	103	86	40	145	5.780	**17300M70**	**675,57**	**17300A2-3/4**	**728,03**
	2-13/16	105	86	40	145	6.000			**17300A2-13/16**	**728,03**
	2-7/8	106	86	40	145	6.080			**17300A2-7/8**	**728,03**
75	**2-15/16**	108	86	42	155	6.580	**17300M75**	**727,01**	**17300A2-15/16**	**783,42**
	3	110	86	42	155	5.850			**17300A3**	**783,42**
80	**3-1/8**	115	86	46	165	7.740	**17300M80**	**759,66**	**17300A3-1/8**	**818,65**
85		122	86	49	165	7.420	**17300M85**	**809,70**		
90		128	86	52	175	9.630	**17300M90**	**834,88**		
95	**3-3/4**	135	127	55	175	10.450	**17300M95**	**878,03**	**17300A3-3/4**	**881,28**
	3-7/8	139	127	56	175	11.080			**17300A3-7/8**	**946,20**
100		140	127	58	185	9.740	**17300M100**	**952,58**		
105		146	127	62	195	10.850	**17300M105**	**983,88**		
110		153	127	65	195	11.500	**17300M110**	**1036,60**		
115		160	127	68	195	12.160	**17300M115**	**1090,70**		
120		166	127	72	205	13.680	**17300M120**	**1129,14**		
125		173	127	74	205	14.450	**17300M125**	**1332,30**		
130		180	127	76	205	15.190	**17300M130**	**1346,74**		



ARTICULACIÓN UNIVERSAL

17770

Ref	L	⚖	€
17770	200	4.700	**1.044,25**



ADAPTADORES

17788A 17799A

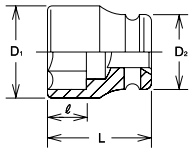
Ref	L	⚖	€
17788A	98	2.600	**214,14**
17799A	115	3.790	**1.078,98**

□1-1/2"x ⊏1" ⚠
□1-1/2"x ⊏2-1/2"

⬡ VASOS HEXAGONALES

19400M 19400A

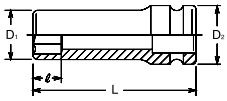
mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
50		88	127	39	115	7.270	**19400M50**	**684,60**		
	2-1/8	92	127	41	115	6.665			**19400A2-1/8**	**710,56**
55		94	127	42	115	7.350	**19400M55**	**710,58**		
60	**2-3/8**	100	127	45	125	7.870	**19400M60**	**710,58**	**19400A2-3/8**	**710,56**
	2-7/16	102	127	46	125	7.840			**19400A2-7/16**	**723,52**
	2-1/2	103	127	47	125	7.810			**19400A2-1/2**	**723,52**
65	**2-9/16**	105	127	48	125	7.790	**19400M65**	**722,55**	**19400A2-9/16**	**723,52**
	2-5/8	107	127	49	125	7.790			**19400A2-5/8**	**723,52**
	2-11/16	108	127	50	125	7.790			**19400A2-11/16**	**723,52**
70	**2-3/4**	110	127	51	125	7.640	**19400M70**	**722,55**	**19400A2-3/4**	**723,52**
	2-13/16	113	127	52	125	4.690			**19400A2-13/16**	**723,52**
	2-7/8	115	127	53	125	7.730			**19400A2-7/8**	**723,52**
75	**2-15/16**	118	127	54	125	7.740	**19400M75**	**722,55**	**19400A2-15/16**	**723,52**
	3	120	127	55	125	7.740			**19400A3**	**723,52**
80	**3-1/8**	124	127	57	125	7.640	**19400M80**	**722,55**	**19400A3-1/8**	**723,52**
	3-1/4	125	127	59	125	7.740			**19400A3-1/4**	**781,93**
85	**3-3/8**	127	127	61	132	7.840	**19400M85**	**781,92**	**19400A3-3/8**	**856,58**
90	**3-1/2**	135	127	64	132	8.500	**19400M90**	**856,58**	**19400A3-1/2**	**856,58**
	3-5/8	138	127	64	132	9.330			**19400A3-5/8**	**856,58**
95	**3-3/4**	140	127	71	140	10.160	**19400M95**	**911,73**	**19400A3-3/4**	**916,20**
	3-7/8	143	127	70	140	10.830			**19400A3-7/8**	**1.122,62**
100	**4**	146	127	71	142	11.500	**19400M100**	**1.122,63**	**19400A4**	**1.128,48**
	4-1/8	155	127	70	142	11.250			**19400A4-1/8**	**1.128,48**
105		155	127	74	146	11.350	**19400M105**	**1.134,01**		
110	**4-1/4**	160	127	76	155	12.710	**19400M110**	**1.158,03**	**19400A4-1/4**	**1.158,03**
	4-3/8	163	127	76	155	13.100			**19400A4-3/8**	**1.277,82**
115	**4-1/2**	167	127	78	158	13.980	**19400M115**	**1.277,82**	**19400A4-1/2**	**1.277,82**
120	**4-5/8**	175	175	79	160	15.430	**19400M120**	**1.454,66**	**19400A4-5/8**	**1.277,82**
125	**4-7/8**	180	175	82	165	16.590	**19400M125**	**1.501,72**	**19400A4-7/8**	**1.454,66**
	5	183	175	81	165	17.090			**19400A5**	**1.501,72**
130		185	175	85	169	17.590	**19400M130**	**1.788,35**		
135	**5-1/4**	190	175	89	175	19.030	**19400M135**	**1.788,35**	**19400A5-1/4**	**1.788,35**
	5-3/8	198	175	94	180	20.880			**19400A5-3/8**	**1.814,05**
140	**5-1/2**	200	175	93	180	21.810	**19400M140**	**1.814,05**	**19400A5-1/2**	**1.814,05**
	5-5/8	203	175	94	182	22.480			**19400A5-5/8**	**1.814,05**
145		205	175	95	183	23.610	**19400M145**	**2152,42**		
	5-3/4	207	175	103	192	24.440			**19400A5-3/4**	**1.814,05**
150		210	175	97	192	25.720	**19400M150**	**2.310,11**		
	6	217	175	100	196	28.510			**19400A6**	**2.310,11**
	6-1/8	218	175	99	196	29.720			**19400A6-1/8**	**2.310,11**
160		225	175	102	200	30.920	**19400M160**	**2.673,76**		
165		230	175	105	204	32.610	**19400M165**	**2.673,76**		
	6-5/8	233	175	105	205	33.500			**19400A6-5/8**	**3.045,94**
170		235	175	106	207	34.390	**19400M170**	**3045,94**		
175		240	175	109	211	36.210	**19400M175**	**3644,87**		
	7	248	175	110	213	39.160			**19400A7**	**3.747,51**
180		250	175	110	214	40.630	**19400M180**	**3747,51**		
185		255	175	113	218	42.690	**19400M185**	**4089,73**		
190		265	175	113	220	47.440	**19400M190**	**4329,31**		
200		275	175	116	225	51.550	**19400M200**	**4979,59**		
210		285	175	123	235	57.170	**19400M210**	**5544,27**		
215		290	175	126	240	60.260	**19400M215**	**6416,30**		
225		305	175	133	250	70.180	**19400M225**	**6416,30**		
235		315	175	140	260	77.060	**19400M235**	**7271,82**		



⬡ VASOS HEXAGONALES LARGOS

19300M

mm	D1	D2	ℓ	L	⚖	Ref	€
75	118	127	42	190	11.930	**19300M75**	**1.043,56**
80	124	127	46	190	12.280	**19300M80**	**1.043,56**
85	127	127	49	195	12.480	**19300M85**	**1.043,56**
90	135	127	52	205	14.000	**19300M90**	**1.146,07**
95	140	127	55	210	14.630	**19300M95**	**1.282,89**
100	146	127	58	215	15.520	**19300M100**	**1.251,60**
105	155	127	62	220	18.250	**19300M105**	**1.453,98**
110	160	127	65	225	18.740	**19300M110**	**1.625,05**
115	167	127	68	230	20.940	**19300M115**	**1.625,05**
120	175	175	72	235	23.530	**19300M120**	**1.949,82**
125	180	175	74	238	26.110	**19300M125**	**2.103,77**
130	185	175	76	243	25.320	**19300M130**	**2.103,77**
135	190	175	80	248	26.290	**19300M135**	**2.058,02**
140	200	175	82	248	28.940	**19300M140**	**2.152,42**
145	205	175	84	248	29.520	**19300M145**	**2.152,42**
150	210	175	88	255	30.600	**19300M150**	**3.010,34**
155	215	175	92	255	31.680	**19300M155**	**3.010,34**
160	225	175	95	260	35.560	**19300M160**	**3.335,29**
165	230	175	98	260	36.040	**19300M65**	**3.420,77**
170	235	175	100	265	37.230	**19300M170**	**3.865,52**
175	240	175	102	270	39.420	**19300M175**	**4.549,65**



ALARGADERAS

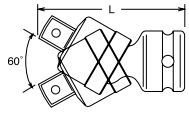
19760-250/-500

Ref	L	⚖	€
19760-250	250	17.800	**1.715,84**
19760-500	500	27.800	**2.047,64**

ARTICULACIÓN UNIVERSAL

19770

Ref	L	⚖	€
19770	303	21.360	**2.633,36**



ADAPTADORES

19977A

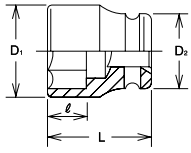
Ref	L	⚖	€
19977A	145	7.210	**1.241,07**

□2-1/2"x ⬚1-1/2"

⬡ VASOS HEXAGONALES

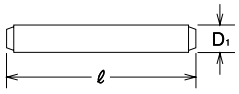
10400M 10400A

mm	pulgadas	D1	D2	ℓ	L	⚖	Ref Métrica	€	Ref Pulgadas	€
105	**4-1/8**	165	175	86	176	19.370	**10400M105**	**2.123,84**	**10400A4-1/8**	**2.122,83**
	4-1/4	168	175	87	178	19.770			**10400A4-1/4**	**2.122,83**
110		170	175	88	179	20.160	**10400M110**	**2.123,84**		
	4-3/8	172	175	88	180	20.660			**10400A4-3/8**	**2.182,51**
	4-1/2	175	175	89	182	21.160			**10400A4-1/2**	**2.182,51**
115		175	175	90	183	21.160	**10400M115**	**2.183,52**		
	4-5/8	178	175	90	183	21.550			**10400A4-5/8**	**2.357,72**
120	**4-3/4**	180	175	91	185	21.930	**10400M120**	**2.358,81**	**10400A4-3/4**	**2.357,72**
125	**4-7/8**	188	175	94	190	23.940	**10400M125**	**2.358,81**	**10400A4-7/8**	**2.357,72**
	5	188	175	95	191	24.500			**10400A5**	**2.357,72**
130	**5-1/8**	193	175	97	194	25.050	**10400M130**	**2.358,81**	**10400A5-1/8**	**2.357,72**
	5-1/4	197	175	100	198	25.990			**10400A5-1/4**	**2.357,72**
135		200	175	101	199	26.930	**10400M135**	**2.948,52**		
	5-3/8	201	175	102	202	27.750			**10400A5-3/8**	**2.947,14**
140	**5-1/2**	205	175	105	205	28.560	**10400M140**	**3.138,04**	**10400A5-1/2**	**3.136,60**
145		210	200	106	207	29.600	**10400M145**	**3.390,81**		
	5-5/8	208	200	106	208	30.110			**10400A5-5/8**	**3.389,24**
	5-3/4	212	200	108	210	30.610			**10400A5-3/4**	**3.389,24**
150	**5-7/8**	215	200	109	212	31.240	**10400M150**	**3.390,81**	**10400A5-7/8**	**3.389,24**
	6	219	200	110	214	32.460			**10400A6**	**3.620,77**
	6-1/8	223	200	112	216	33.670			**10400A6-1/8**	**3.620,77**
	6-1/4	227	200	114	218	34.590			**10400A6-1/4**	**4.020,76**
160		228	200	114	220	35.500	**10400M160**	**4.022,61**		
	6-3/8	231	200	115	221	36.720			**10400A6-3/8**	**4.020,76**
165	**6-1/2**	235	200	117	224	37.940	**10400M165**	**4.022,61**	**10400A6-1/2**	**4.020,76**
	6-5/8	238	200	118	226	38.800			**10400A6-5/8**	**4.652,31**
170		240	200	118	227	39.660	**10400M170**	**4.654,48**		
	6-3/4	241	200	119	228	39.870			**10400A6-3/4**	**4.652,31**
	6-7/8	245	200	120	230	40.640			**10400A6-7/8**	**4.652,31**
175		245	200	121	231	41.400	**10400M175**	**4.654,48**		
	7	251	200	121	232	43.570			**10400A7**	**5.515,36**
180		255	200	122	234	45.740	**10400M180**	**5.517,93**		
	7-1/8	257	200	122	234	46.450			**10400A7-1/8**	**5.515,36**
	7-1/4	263	200	123	236	48.400			**10400A7-1/4**	**5.515,36**
185		265	200	125	238	50.350	**10400M185**	**5.517,93**		
	7-3/8	269	200	124	238	52.500			**10400A7-3/8**	**5.831,11**
190		275	200	125	239	54.650	**10400M190**	**5.833,82**		
	7-1/2	275	200	125	240	55.350			**10400A7-1/2**	**5.831,11**
	7-5/8	278	200	127	242	56.050			**10400A7-5/8**	**5.831,11**
	7-3/4	282	200	129	245	57.620			**10400A7-3/4**	**6.315,33**
200		285	200	128	245	59.190	**10400M200**	**6.318,25**		
	7-7/8	285	200	130	248	60.870			**10400A7-7/8**	**6.315,33**
	8	290	200	132	250	62.550			**10400A8**	**6.315,33**
	8-1/8	293	200	133	251	63.760			**10400A8-1/8**	**7.577,23**
210	**8-1/4**	295	200	135	255	64.970	**10400M210**	**7.581,13**	**10400A8-1/4**	**7.577,23**
	8-3/8	298	200	136	258	65.580			**10400A8-3/8**	**7.577,23**
215	**8-1/2**	300	200	138	260	68.150	**10400M215**	**9.055,24**	**10400A8-1/2**	**9.051,05**
	8-5/8	305	200	139	262	70.760			**10400A8-5/8**	**9.051,05**
	8-3/4	310	200	140	264	73.830			**10400A8-3/4**	**9.051,05**
	8-7/8	313	200	142	267	75.780			**10400A8-7/8**	**9.051,05**



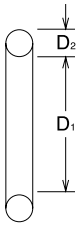
PASADOR

Ref	Modelo	☐	Apertura	D1	ℓ	€
1200A	A21	1/4"		1,5	10,2	**0,47**
1301A	A31	3/8"	≦ 12	2,5	14,5	**0,47**
1302A	A32	3/8"	> 12	2,5	17,5	**0,47**
1401A	A41	1/2"	≦ 14	3,5	20	**0,80**
1402A	A42	1/2"	> 14	3,5	25	**0,80**
1500A	A51	5/8"		4	29	**0,80**
1601A	A61	3/4"	≦ 46	5,5	35	**0,80**
1602A	A62	3/4"	> 46	5,5	45	**0,97**
1801A	A81	1"	≦ 70	6	45	**0,97**
1802A	A82	1"	> 70	6	75	**1,86**
1701A	A71	1-1/2"	≦ 90	7	75	**1,86**
1702A	A72	1-1/2"	> 90	7	110	**4,07**
1901A	A91	2-1/2"	≦ 115	9	110	**4,07**
1902A	A92	2-1/2"	> 115	9	155	**4,83**
2001A	A01	3-1/2"	≦ 140	13	155	**6,25**
2002A	A02	3-1/2"	> 140	13	180	**6,25**



JUNTA TÓRICA

Ref	Modelo	☐	BperturB	D1	D2	€
1200B	B21	1/4"		2,5	9	**0,80**
1301B	B31	3/8"	≦ 12	3,5	13	**0,80**
1302B	B32	3/8"	> 12	3,5	16	**0,80**
1401B	B41	1/2"	≦ 14	4	19	**0,97**
1402B	B42	1/2"	> 14	4	24	**0,97**
1500B	B51	5/8"		4,5	28	**0,97**
1601B	B61	3/4"	≦ 46	5	36	**1,40**
1602B	B62	3/4"	> 46	5	45	**1,86**
1801B	B81	1"	≦ 70	7	45	**1,86**
1802B	B82	1"	> 70	7	75	**7,80**
1701B	B71	1-1/2"	≦ 90	10	75	**7,80**
1702B	B72	1-1/2"	> 90	10	114	**19,88**
1901B	B91	2-1/2"	≦ 115	10,5	114	**19,88**
1902B	B92	2-1/2"	> 115	10,5	158	**27,09**
2001B	B01	3-1/2"	≦ 140	15	158	**48,47**
2002B	B02	3-1/2"	> 140	15	183	**63,79**



ARO DE SUJECIÓN EN C

Ref	Modelo	⍁	Apertura	€
1301C	C31	3/8"	≦ 12	**0,97**
1302C	C32	3/8"	> 12	**0,97**
1401C	C41	1/2"	≦ 14	**1,21**
1402C	C42	1/2"	> 14	**1,21**
1600C	C61	3/4"	> 46	**2,09**
1801C	C81	1"	≦ 70	**2,26**
1802C	C83	1"	> 70	**6,87**
1700C	C71	1-1/2"	≦ 90	**7,68**

Aro de acero elástico de una pieza. Colocación sencilla apretando con el dedo y fácilmente extraíble con el extractor. Mucho más cómodo y seguro que la combinación de pasador y junta tórica.

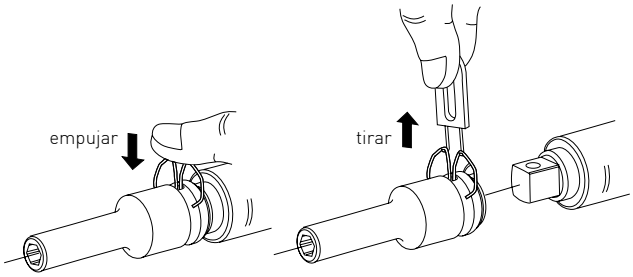
EXTRACTOR

Ref	⍁	€
149	3/8" 1/2"	**1,69**
152	3/4" 1"	**1,85**

ARO DE SUJECIÓN EN C

Ref	⍁	Apertura	+	Extractor	€
PK1301C	3/8"	≦ 12	+	149	**14,85**
PK1302C	3/8"	> 12	+	149	**14,85**
PK1401C	1/2"	≦ 14	+	149	**18,60**
PK1402C	1/2"	> 14	+	149	**18,60**
PK1600C	3/4"	> 46	+	152	**28,62**
PK1801C	1"	≦ 70	+	152	**29,10**

Aro de acero elástico de una pieza. Colocación sencilla apretando con el dedo y fácilmente extraíble con el extractor. Mucho más cómodo y seguro que la combinación de pasador y junta tórica.



Vasos de IMPACTO Normalizados	Cuad. Cond	1/4"	3/8"		1/2"		3/4"		1"		1-1/2"	
	Aro C		1301C	1301C	1401C	1402C	1601C	1602C	1801C	1802C	1700C	
	Junta Tórica	1200A/B	1301A/B	1302A/B	1401A/B	1402A/B	1601A/B	1602A/B	1801A/B	1802A/B	1701A/B	1702A/B
4												
4,5	3/16											
5												
5,5												
6	1/4											
7	9/32											
8												
9	11/32											
10	3/8											
11	7/16											
12												
13	1/2											
14	9/16											
15												
16	5/8											
17	11/16											
18												
19	3/4											
20												
21	13/16											
22	7/8											
23												
24	15/16											
25	1											
26												
27	1-1/16											
28												
29	1-1/8											
30	1-3/16											
31												
32	1-1/4											
33	1-5/16											
34	1-3/8											
36												
37	1-7/16											
38	1-1/2											
39												
40	1-9/16											
41	1-5/8											
42												
43	1-11/16											
44												
45	1-3/4											
46	1-13/16											

Vasos de IMPACTO Normalizados	Cuad. Cond	1/4"	3/8"		1/2"		3/4"		1"		1-1/2"	
	Aro C		1301C	1301C	1401C	1402C	1601C	1602C	1801C	1802C	1700C	
	Junta Tórica	1200A/B	1301A/B	1302A/B	1401A/B	1402A/B	1601A/B	1602A/B	1801A/B	1802A/B	1701A/B	1702A/B
47												
48	1-7/8											
	15/16											
50												
	2											
52	2-1/16											
54	2-1/8											
55	2-3/16											
56	3/8											
	2-1/4											
58	2-5/16											
60	2-3/8											
62	2-7/16											
63												
	2-1/2											
65	2-9/16											
67	2-5/8											
68	2-11/16											
70	2-3/4											
	2-16/16											
	2-7/8											
75	2-15/16											
	3											
	3-1/16											
80	3-1/8											
	3-1/4											
85												
	3-3/8											
90	3-1/2											
	3-5/8											
95	3-3/4											
100	3-7/8											
105	4											
	4-1/8											
110	4-1/4											
115	4-1/2											
120	4-5/8											
	4-3/4											
125	4-7/8											
130	5											
135	5-1/4											
140												
150	1-3/4											
	6											
	6-1/2											