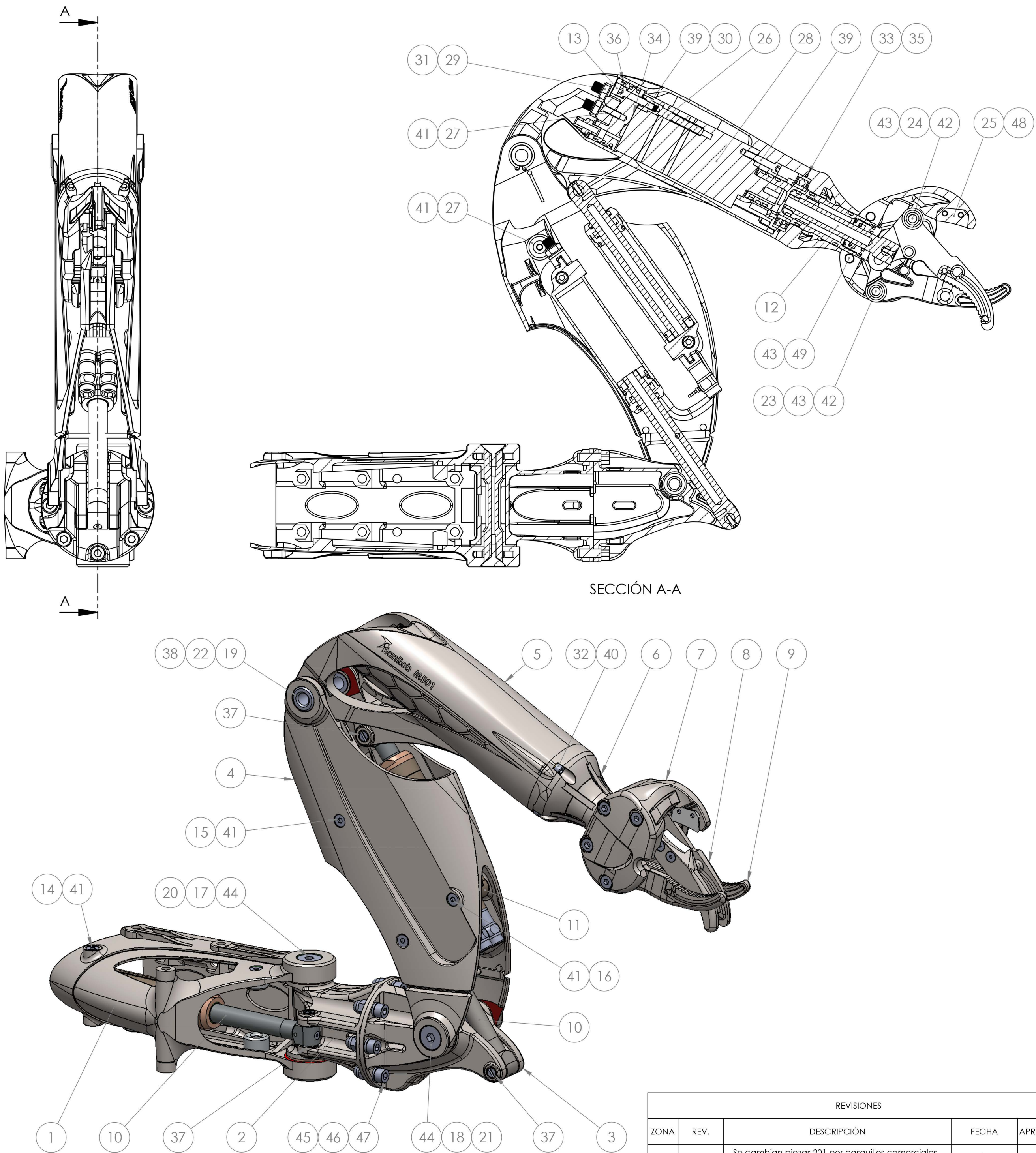


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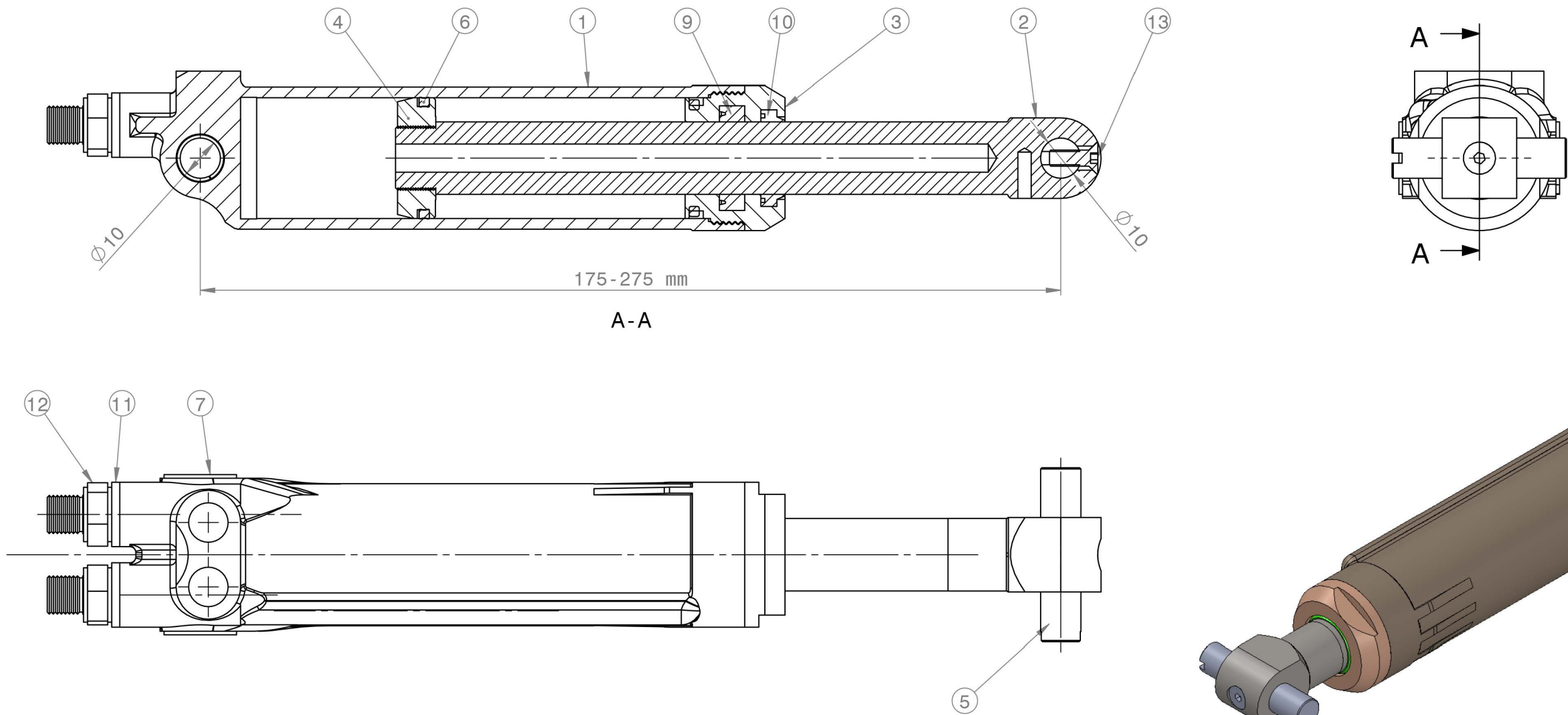


REVISIONES				
ZONA	REV.	DESCRIPCIÓN	FECHA	APROBADO
	REV01	Se cambian piezas 201 por casquillos comerciales. Se crea conjunto 200. Se añaden piezas 302.	7oct2015	P. Iglesias

ITEM	MANUFAC. / SUPPLIER REF.	DESCRIPTION	QTY.
1	3053.14.000-001-R01	SUPPORTING BASE	
2	3053.14.000-002-R02	YAW FLANGE	
3	3053.14.000-003-R02	SHOULDER FLANGE	
4	3053.14.000-004-R01	ARM	
5	3053.14.000-005-R04	FOREARM	
6	3053.14.000-006-R03	WRIST BEARING COVER	
7	3053.14.000-007-R02	JAW BODY	
8	3053.14.000-008-R01	UPPER JAW	
9	3053.14.000-009-R01	LOWER JAW	
10	3053.14.000-100-R01	CYLINDER MAIN ASSY.	
11	3053.14.000-200	CYLINDER MAIN ASSY.	
12	3053.14.000-400-R01	CYLINDER JAW ASSY.	
13	3053.14.000-101-R02	MOTOR END COVER	
14	3053.14.000-203	SHAFT CYL. #1	
15	3053.14.000-204	SHAFT CYL. #2	
16	3053.14.000-205	SHAFT CYL. #3	
17	3053.14.000-206-R02	YAW SHAFT	
18	3053.14.000-207-R02	SHOULDER PITCH SHAFT	
19	3053.14.000-208-R01	ELBOW PITCH PIVOT SHAFT	
20	3053.14.000-209	BRONZE BUSH (Yaw Shaft)	
21	3053.14.000-210	BRONZE BUSH (Shoulder Shaft)	
22	3053.14.000-211	BRONZE BUSH (Elbow Pin)	
23	3053.14.000-212	BRONCE BUSH (Lower Jaw)	
24	3053.14.000-214	BRONZE BUSH (Upper Jaw)	
25	3053.14.000-301	CUTTER INOX	
26	3053.14.000-302	SPECIAL BOLT M8-M6	
27	3053.14.000-304	ANODE Ø24	1
28	BIBUS 151G0037	OMM 50 DANFOSS HYD. MOTOR	
29	RODAVIGO 204Z101002	FITTING BSPP 1/8" M-M INOX	1
30	EPIDOR 457.622	BONDED WASHER M6 GAL	3
31	RODAVIGO 203ZVT21002	BONDED WASHER G1/8" INOX	5
32	EPIDOR 552.521	COPPER WASHER 6-10-1	4
33	EPIDOR 691.139	O-RING 56x2	1
34	EPIDOR 667.089	O-RING 23x1	2
35	EPIDOR 340.653	O-RING 2,5x2	2
36	EPIDOR 363.770	O-RING 54x3	3
37	EPIDOR 673.152	BUSH PTFE BB-1012DU-B	6
38	DIN 471 D20	CIRCLIP Ø20 INOX	2
39	DIN 912 M6x30	BOLT DIN 912 M6x30	
40	DIN 912 M6x20	BOLT DIN 912 M6x20	
41	DIN 7991 M6x20	COUNTERSUNK BOLT DIN 7991 M6x20	
42	DIN 7984 M8x60	LOW HEAD BOLT DIN 7984 M8x60 NUT	
43	DIN 934 M8	DIN 934 M8	
44	DIN 7991 M12x20	COUNTERSUNK BOLT DIN 7991 M12x20	
45	DIN 127 M8	LOCK WASHER DIN 127 M8	
46	DIN 1587 M8	ACORN NUT DIN 1587 M8	
47	DIN 912 M8x20	BOLT DIN 912 M8x20	
48	DIN 7991 M5x10	COUNTERSUNK BOLT DIN 7991 M5x10	
49	DIN 912 M8x60	BOLT DIN 912 M8x60	

 TITANRob® is a registered trademark of Quantum Innovative SL CIF: B27725225 Porto do Mollo, Rúa das Pontes, nº19, CP:36350, Nigrán (Pontevedra) SPAIN	Fecha original	Dibujado	Comprobado			MATAR ARISTAS 0,5 x45°	
	31/03/2015	JM Taibo	P. Iglesias				
	Proyecto M501					COTAS SIN TOLERANCIA SEGUN ISO 2768 mK	
				Material	Tratamiento		Peso
Cliente	Designación					Proceso	
	STANDAR SPARE KIT - M501 MAIN ASSY.					Montaje	
	Nº de plano			Cant.	Escala	Formato	Hoja
	3053.14.000-000-R01				1:10	A2	1 de 1

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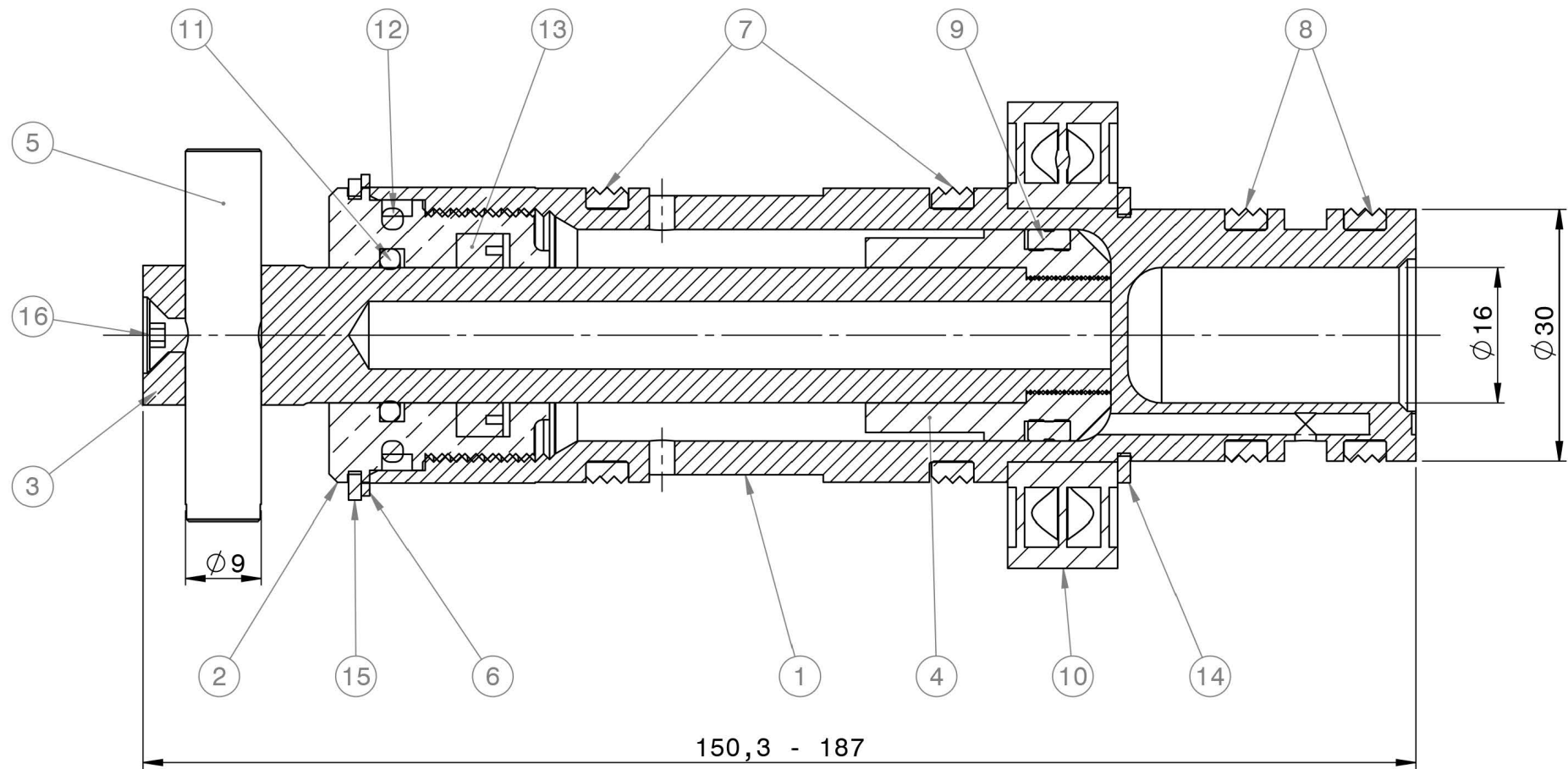


ITEM	MANUFAC. / SUPPLIER REF.	DESCRIPTION	QTY.
1	3053.14.000-010-R01	CYLINDER BODY Ø30X100	
2	3053.14.000-106-R01	PISTON ROD	
3	3053.14.000-107-R01	CYLINDER HEAD	
4	3053.14.000-108-R02	PISTON	
5	3053.14.000-202-R02	ROD PIN	
6	3053.14.000-310	SEAL PU88 Ø30	3
7	EPIDOR 673.152	CUSHION PTFE BB-1012DU-B	6
8	EPIDOR 472.147	O-RING 24x2,5	3
9	EPIDOR 640.300	ROD SEAL Ø18	3
10	EPIDOR 337.847	WIPER SEAL PU11 18x24x4	3
11	RODAVIGO 203ZVT21002	BONDED WASHER G1/8" INOX	6
12	RODAVIGO 204Z101002	FITTING BSPP 1/8" M-M INOX	6
13	DIN 7991 M4x12	COUNTERSUNK BOLT M4X12	3

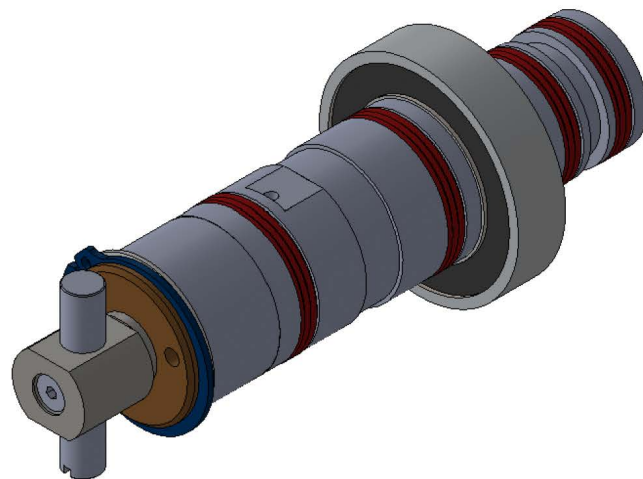
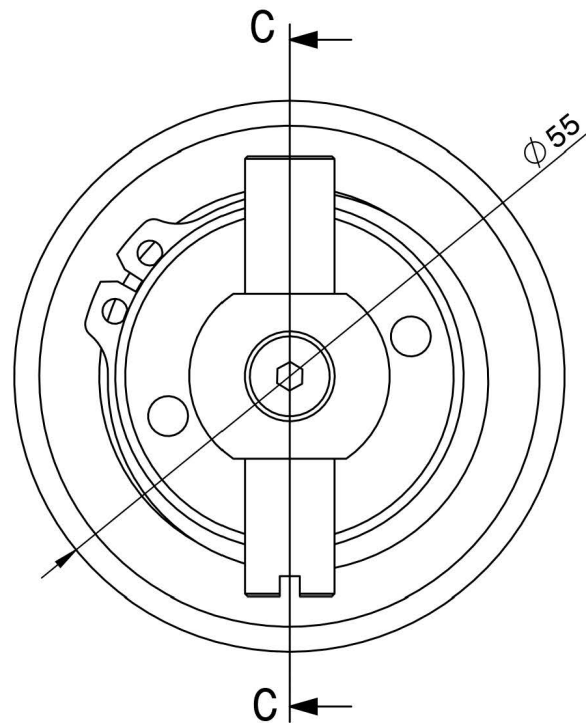
REVISIONES				
ZONA	REV.	DESCRIPCIÓN	FECHA	APROBADO
	R01	Se sustituye junta torica por junta mecanizada PU88 en el émbolo	29sep2015	P. Iglesias

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	24/11/2014	JMTaibo	Pablo Iglesias			
	Proyecto M501 / G500			COTAS SIN TOLERANCIA SEGUN ISO 2768 mK		
				Material	Tratamiento	Peso 0.54 Kg.
Cliente	Designación STANDAR SPARE KIT - CYLINDER MAIN ASSY.				Proceso MONTAJE	
	Nº de plano 3053.14.000-100-R01		Cant.	Escala 1:1	Formato A3	Hoja 1 de 1

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C-C



ITEM	MANUFAC. /SUPPLIER REF.	DESCRIPTION	QTY.
1	3053.14.000-102-R01	CYLINDER JAW BODY	
2	3053.14.000-103-R02	CYLINDER HEAD	
3	3053.14.000-104-R01	PISTON ROD	
4	3053.14.000-105-R01	PISTON	
5	3053.14.000-213-R01	JAW PIN	
6	3053.14.000-215	JAW LIMIT RING	
7	3053.14.000-308	SEAL ROT. Ø35 PU88	2
8	3053.14.000-309	SEAL ROT. Ø30 PU88	2
9	3053.14.000-311	PISTON SEAL Ø25 PU88	1
10	6006.2RSR.C3 - FAG	BEARING 55x30x13	
11	EPIDOR 373.293	O-RING 15,6x2,4	1
12	EPIDOR 694.562	O-RING 25x2,5	1
13	EPIDOR 504.050	ROD SEAL Ø16	1
14	DIN 471 D30	CIRCLIP Ø30 INOX	1
15	DIN 471 D35	CIRCLIP Ø35 INOX	1
16	DIN 7991 M4x12	COUNTERSUNK BOLT DIN 7991 M4x12	1

REVISIONES				
ZONA	REV.	DESCRIPCIÓN	FECHA	APROBADO
	REV01	Se sustituye tórica por rascador, se instalan 5 juntas mecanizadas de PU88 en las estanqueidades dinámicas.	29sep2015	P. Iglesias

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	28/11/2014	JMTaibo	Pablo Iglesias					
	Proyecto M501					COTAS SIN TOLERANCIA SEGUN ISO 2768 mK		
				Material		Tratamiento	Peso 0.67 Kg.	
Cliente	Designación					Proceso		
	STANDAR SPARE KIT - CYLINDER JAW ASSY.					MONTAJE		
	Nº de plano 3053.14.000-400-R01			Cant.	Escala 1.5:1	Formato A3	Hoja 1 de 1	



TITANROB MANIPULATOR HYDRAULIC HOSE LIST

Equipment	M501 Manipulator	Ref.	3053.14.000
S/N	007+008 ALLSEAS	Date	15feb2018
Assembly	HYDRAULIC HOSES	Revised by	PIN

No.	FUNCTION	Actuator	Valve Pack Port No.	DWG Ref. / Pos.	Hose Length (mm)	Manip end Fitting	V Pack end Fitting	Hose Type	QTY.
1	SHOULDER / ARM Azimuth (Yaw) RIGHT	Extend (RH) Retract (LH)	A1	N/A	1050	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
2	SHOULDER / ARM Azimuth (Yaw) LEFT	Retract (RH) Extend (LH)	B1	N/A	1050	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
3	SHOULDER / ARM Pitch UP	Extend	A2	N/A	1850	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
4	SHOULDER / ARM Pitch DOWN	Retract	B2	N/A	1850	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
5	ELBOW / FOREARM Pitch UP	Extend	A3	N/A	1650	BANJO	BSPP 1/8" F Swivel	Parker 2020N-012V30	1
6	ELBOW / FOREARM Pitch DOWN	Retract	B3	N/A	1650	BANJO	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
7	JAW Rotate CW	Rotate CCW	A4	N/A	1900	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	1
8	JAW Rotate CCW	Rotate CW	B4	N/A	1900	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
9	JAW Rotate DRAIN	N/A	TT	N/A	1900	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
10	JAW CLOSE	Retract	A5	N/A	1900	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A
11	JAW OPEN	Extend	B5	N/A	1900	BSPP 1/8" F Swivel	BSPP 1/8" F Swivel	Parker 2020N-012V30	N/A