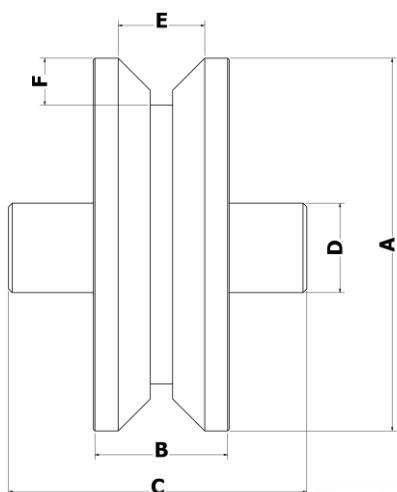
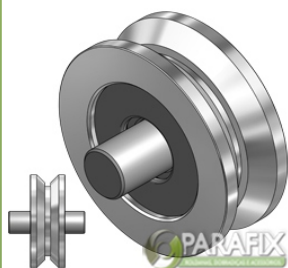


RELAÇÃO DE PRODUTOS

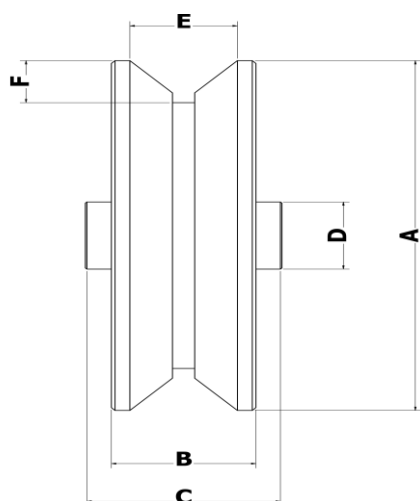
ROLDANA EM V COM PINO



ROLDANA CANAL V COM PINO							
REF	A Ø	A Ø	B	C	D	E	F
2001	1.1/2"	38 mm	13	50	10	13	6
2002	2"	50 mm	16	50	12	13	6
*2003	2"	50 mm	18	50	12	15	6
2004	2.3/8"	60 mm	16	50	12	13	6
2005	2.1/2"	63 mm	16	50	12	13	6
*2006	2.1/2"	63 mm	19	50	15	16	6
2007	2.3/4"	70 mm	16	50	15	13	6
2008	3"	76 mm	16	50	15	13	6
*2009	3"	76 mm	19	50	15	16	6
2010	3.1/4"	80 mm	16	50	15	13	6
2011	4"	100 mm	16	50	15	13	6
*2012	4"	100 mm	20	50	17	16	6
2014	5"	127 mm	20	50	20	16	6
2015	6"	150 mm	20	50	20	16	6

* Roldana mais larga com arruela de proteção no rolamento

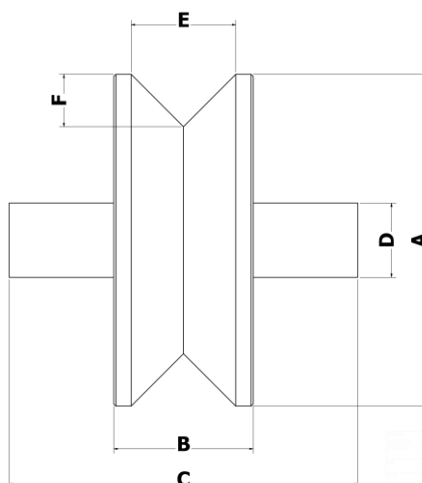
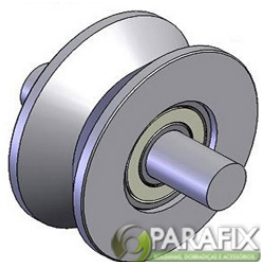
ROLDANA EM V COM BUCHA PARA PARAFUSO



ROLDANA CANAL V COM BUCHA PARA PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	G
2020	1.1/2"	38 mm	13	25	10	13	6	1/4"
2021	2"	50 mm	16	25	12	13	6	5/16"
*2022	2"	50 mm	18	25	12	15	6	5/16"
2023	2.3/8"	60 mm	15	25	12	13	6	5/16"
2024	2.1/2"	63 mm	16	25	12	13	6	5/16"
*2025	2.1/2"	63 mm	19	25	15	16	6	3/8"
2026	2.3/4"	70 mm	16	25	15	13	6	3/8"
2027	3"	76 mm	16	25	15	13	6	3/8"
*2028	3"	76 mm	19	25	15	16	6	3/8"
2029	3.1/4"	80 mm	15	25	15	13	6	3/8"
2030	4"	100 mm	16	25	15	13	6	3/8"
*2031	4"	100 mm	20	25	17	16	6	3/8"

* Roldana mais larga com arruela de proteção no rolamento

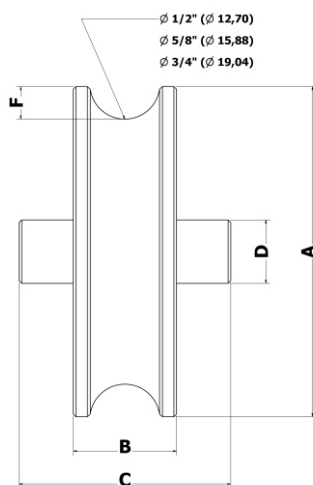
ROLDANA EM V COM 2 ROLAMENTOS E PINO



ROLDANA CANAL V LARGA COM PINO								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2200	2"	50 mm	24	40	12	22	11	c/ 1 rolamento
2201	2"	50 mm	24	40	12	22	11	c/ 2 rolamentos
2202	2.3/8"	60 mm	25	40	12	22	11	c/ 1 rolamento
2203	2.3/8"	60 mm	25	40	12	22	11	c/ 2 rolamentos
2204	2.1/2"	63 mm	25	40	12	22	11	c/ 1 rolamento
2205	2.1/2"	63 mm	25	40	12	22	11	c/ 2 rolamentos
2206	2.3/4"	70 mm	27	40	15	25	11	c/ 1 rolamento
2207	2.3/4"	70 mm	27	40	15	25	11	c/ 2 rolamentos
2208	3"	76 mm	27	40	15	25	11	c/ 1 rolamento
2209	3"	76 mm	27	40	15	25	11	c/ 2 rolamentos
2210	3.1/4"	80 mm	27	40	15	25	11	c/ 1 rolamento
2211	3.1/4"	80 mm	27	40	15	25	11	c/ 2 rolamentos
2212	4"	100 mm	27	40	17	25	11	c/ 1 rolamento
2213	4"	100 mm	27	40	17	25	11	c/ 2 rolamentos
2214	5"	120 mm	30	40	17	28	11	c/ 2 rolamentos

ROLDANA EM U FERRO REDONDO 1/2" , 5/8" E 3/4"

COM PINO



ROLDANA CANAL U FERRO 1/2" COM PINO

REF	A Ø	A Ø	B	C	D	E	F
2070	1.1/2"	38 mm	15	40	10	13	6
2071	2"	50 mm	15	40	12	13	6
*2072	2"	50 mm	18	40	12	15	6
2073	2.3/8"	60 mm	15	40	12	13	6
2074	2.1/2"	63 mm	15	40	12	13	6
*2075	2.1/2"	63 mm	19	40	15	16	6
2076	2.3/4"	70 mm	15	40	15	13	6
2077	3"	76 mm	15	40	15	13	6
*2078	3"	76 mm	19	40	15	16	6
2079	3.1/4"	80 mm	15	40	15	13	6
2080	4"	100 mm	15	40	15	13	6
*2081	4"	100 mm	20	40	17	16	6
2082	5"	120 mm	17	40	17	14	6
*2083	5"	120 mm	20	40	17	16	6
2084	6"	150 mm	20	40	20	16	6

* Roldana mais larga com arruela de proteção no rolamento

ROLDANA CANAL U FERRO 3/4" COM PINO

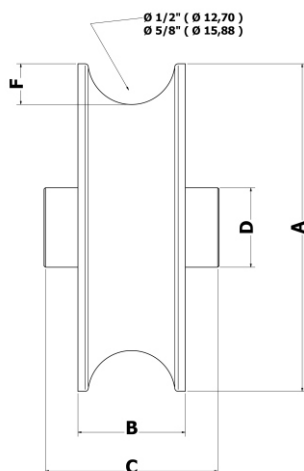
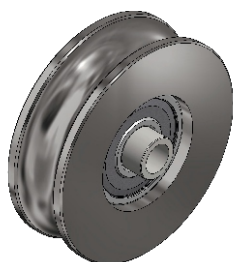
REF	A Ø	A Ø	B	C	D	E	F
2110	2"	50 mm	22	50	12	13	6
2111	2.1/2"	63 mm	22	50	15	13	6
2112	3"	76 mm	22	50	15	13	6
2113	4"	100 mm	22	50	15	13	6

ROLDANA CANAL U FERRO 5/8" COM PINO

REF	A Ø	A Ø	B	C	D	E	F
2105	2"	50 mm	18	50	12	16	6
2106	2.1/2"	63 mm	19	50	12	16	6
2107	3"	76 mm	19	50	15	16	6
2108	4"	100 mm	20	50	15	16	6

ROLDANA EM U FERRO REDONDO 1/2" , 5/8"

COM BUCHA



ROLDANA CANAL U FERRO 1/2" COM BUCHA PARA PARAFUSO

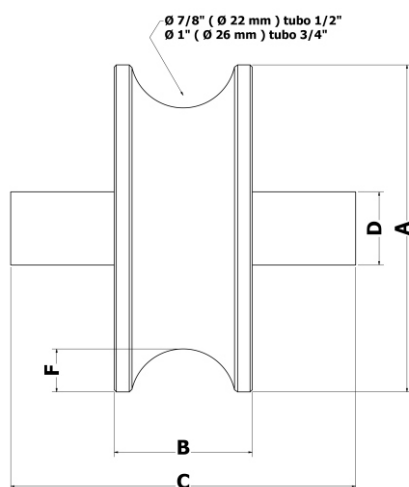
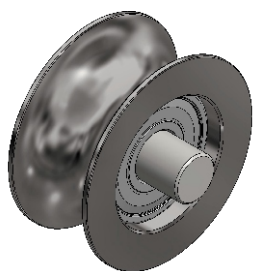
REF	A Ø	A Ø	B	C	D	E	F	G
2090	1.1/2"	38 mm	15	25	10	13	6	1/4"
2091	2"	50 mm	16	25	12	13	6	5/16"
*2092	2"	50 mm	18	25	12	13	6	5/16"
2093	2.3/8"	60 mm	16	25	12	13	6	5/16"
2094	2.1/2"	63 mm	15	25	12	13	6	5/16"
*2095	2.1/2"	63 mm	19	25	15	13	6	3/8"
2096	2.3/4"	70 mm	16	25	15	13	6	3/8"
2097	3"	76 mm	15	25	15	13	6	3/8"
*2098	3"	76 mm	19	25	15	13	6	3/8"
2099	3.1/4"	80 mm	16	25	15	13	6	3/8"
2100	4"	100 mm	16	25	15	13	6	3/8"
*2101	4"	100 mm	20	25	17	13	6	3/8"

* Roldana mais larga com arruela de proteção no rolamento

ROLDANA CANAL U FERRO 5/8" COM BUCHA PARA PARAFUSO

REF	A Ø	A Ø	B	C	D	E	F	G
2171	2"	50 mm	18	25	12	16	6	5/16"
2172	2.1/2"	63 mm	19	25	15	16	6	3/8"
2170	2.3/4"	70 mm	19	25	15	16	6	3/8"
2173	3"	76 mm	19	25	15	16	6	3/8"
2174	4"	100 mm	20	25	17	16	6	3/8"

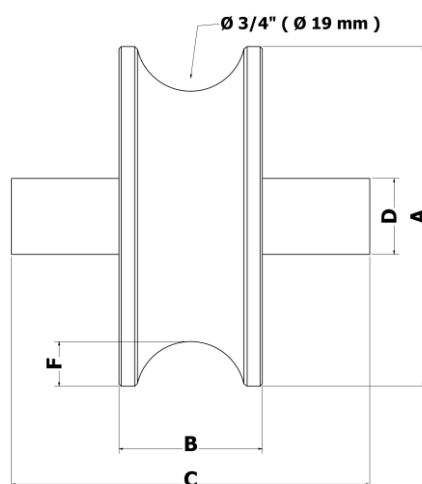
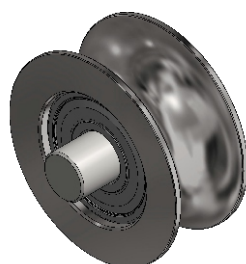
ROLDANA EM U PARA TUBO 1/2" E 3/4" COM PINO



ROLDANA CANAL U LARGA COM PINO (TUBO GALVANIZADO DE 1/2 - FERRO 7/8")								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2220	2"	50 mm	24	40	12	22	8	c/ 1 rolamento
2221	2"	50 mm	24	40	12	22	8	c/ 2 rolamentos
2222	2.3/8"	60 mm	25	40	12	22	8	c/ 1 rolamento
2223	2.3/8"	60 mm	25	40	12	22	8	c/ 2 rolamentos
2224	2.1/2"	63 mm	25	40	12	22	8	c/ 1 rolamento
2225	2.1/2"	63 mm	25	40	12	22	8	c/ 2 rolamentos
2226	2.3/4"	70 mm	27	40	15	22	8	c/ 1 rolamento
2227	2.3/4"	70 mm	27	40	15	22	8	c/ 2 rolamentos
2228	3"	76 mm	27	40	15	22	8	c/ 1 rolamento
2229	3"	76 mm	27	40	15	22	8	c/ 2 rolamentos
2230	3.1/4"	80 mm	27	40	15	22	8	c/ 1 rolamento
2231	3.1/4"	80 mm	27	40	15	22	8	c/ 2 rolamentos
2232	4"	100 mm	27	40	17	22	8	c/ 1 rolamento
2233	4"	100 mm	27	40	17	22	8	c/ 2 rolamentos
2234	5"	120 mm	30	40	17	22	8	c/ 2 rolamentos

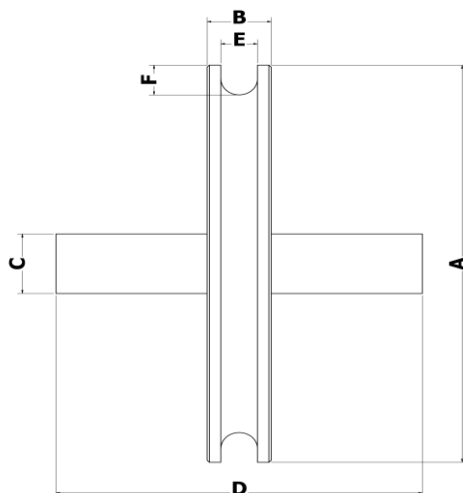
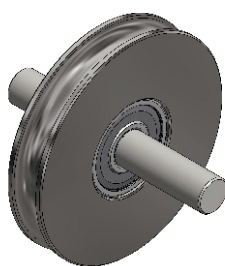
ROLDANA CANAL U TUBO 3/4" LARGA COM PINO (TUBO GALVANIZADO DE 3/4 - FERRO 1")								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2241	2"	50 mm	27	40	12	26	8	c/ 2 rolamentos
2242	2.3/8"	60 mm	27	40	12	26	8	c/ 2 rolamentos
2243	2.1/2"	63 mm	27	40	12	26	8	c/ 2 rolamentos
2244	2.3/4"	70 mm	27	40	15	26	8	c/ 2 rolamentos
2245	3"	76 mm	27	40	15	26	8	c/ 2 rolamentos
2246	3.1/4"	80 mm	29	40	15	26	8	c/ 2 rolamentos
2247	4"	100 mm	29	40	17	26	8	c/ 2 rolamentos
2248	5"	120 mm	30	40	17	26	8	c/ 2 rolamentos

ROLDANA EM U DOIS ROLAMENTOS PARA FERRO 3/4 COM PINO



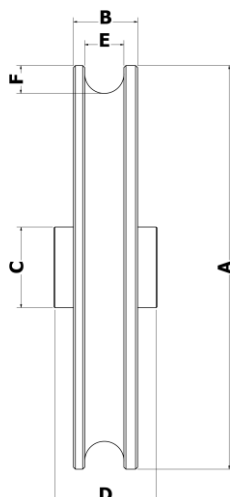
ROLDANA DOIS ROLAMENTOS CANAL U FERRO 3/4 COM PINO								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2250	2"	50 mm	22	40	12	19	8	c/ 2 rolamentos
2251	2.3/8"	60 mm	22	40	12	19	8	c/ 2 rolamentos
2252	2.1/2"	63 mm	22	40	12	19	8	c/ 2 rolamentos
2253	2.3/4"	70 mm	22	40	15	19	8	c/ 2 rolamentos
2254	3"	76 mm	25	40	15	19	8	c/ 2 rolamentos
2255	3.1/4"	80 mm	25	40	15	19	8	c/ 2 rolamentos
2256	4"	100 mm	25	40	17	19	8	c/ 2 rolamentos
2257	5"	120 mm	25	40	17	19	8	c/ 2 rolamentos

ROLDANA CAVA U PARA CABO DE AÇO COM PINO



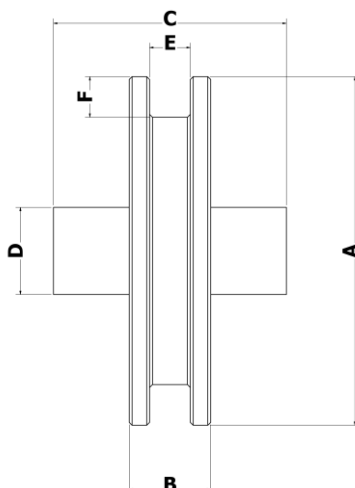
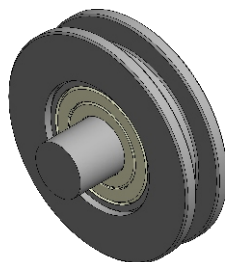
ROLDANA CANAL U PARA CABO DE AÇO							
REF	A Ø	A Ø	B	C	D	E	F
2041	2"	50 mm	14	12	60	10	6
2040	2.1/2"	63 mm	14	12	60	10	6
2042	3"	76 mm	14	15	100	10	6
2043	3.1/4"	80 mm	14	15	100	10	6
2044	4"	100 mm	14	15	100	10	6
2045	4"	100 MM	16	17	100	11	6
2046	5	120 MM	16	17	100	10	6
2047	6	150 MM	16	17	100	10	6

ROLDANA CAVA U PARA CABO DE AÇO COM BUCHA



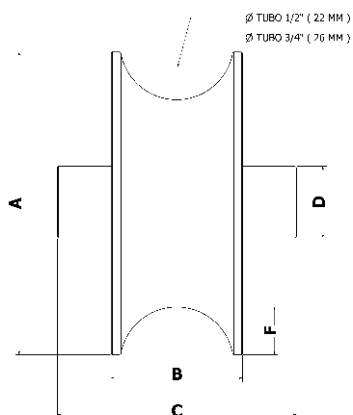
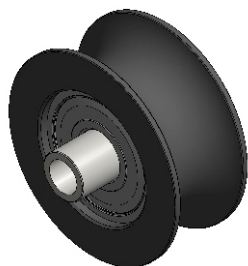
ROLDANA CANAL U PARA CABO DE AÇO COM BUCHA PARA PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	G
2048	2"	50 mm	14	12	25	10	6	5/16"
2049	2.1/2"	63 mm	14	12	25	10	6	5/16"
2050	3"	76 mm	14	15	25	10	6	3/8"
2051	3.1/4"	80 mm	14	15	25	10	6	3/8"
2052	4"	100 mm	14	15	25	10	6	3/8"
2053	4"	100 MM	16	17	25	11	6	3/8"
2054	5	120 MM	16	17	25	10	6	3/8"
2055	6	150 MM	16	17	25	10	6	3/8"

ROLDANA CANAL QUADRADO E PINO



ROLDANA CANAL _ FERRO QUADRADO 1/4" COM PINO							
REF	A Ø	A Ø	B	C	D	E	F
2120	2"	50 mm	14	50	12	8	6
2121	2.3/8"	60 mm	14	50	12	8	8
2122	2.1/2"	63 mm	14	50	12	8	8
2123	2.3/4"	70 mm	14	50	15	8	8
2124	3"	76 mm	14	50	15	8	8
2125	3.1/4"	80 mm	14	50	15	8	8
2126	4"	100 mm	14	50	15	8	8

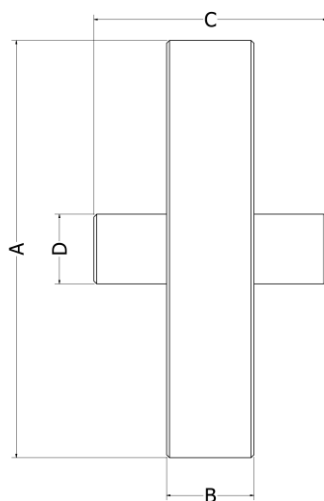
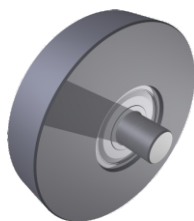
ROLDANA CANAL U TUBO 1/2 E TUBO 3/4 COM BUCHA



ROLDANA CANAL U LARGA COM BUCHA (tubo galvanizado de 1/2 - ferro 7/8")								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2260	2"	50 mm	23	26	12	22	8	c/ 1 rolamento
2261	2"	50 mm	25	32	12	22	8	c/ 2 rolamentos
2262	2.1/2"	63 mm	23	26	12	22	8	c/ 1 rolamento
2263	2.1/2"	63 mm	25	32	12	22	8	c/ 2 rolamentos
2267	2.3/4"	70 mm	27	32	15	22	8	c/ 1 rolamento
2266	2.3/4"	70 mm	27	32	15	22	8	c/ 2 rolamentos
2264	3"	76 mm	23	32	15	22	8	c/ 1 rolamento
2265	3"	76 mm	27	32	15	22	8	c/ 2 rolamentos
2269	3.1/4"	80 mm	27	32	15	22	8	c/ 2 rolamentos
2268	4"	100 mm	27	32	17	22	8	c/ 2 rolamentos

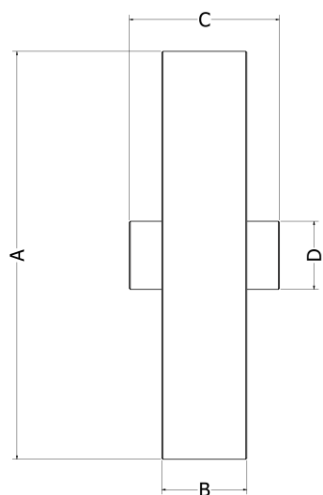
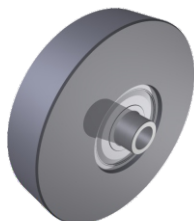
ROLDANA CANAL U TUBO 3/4" LARGA COM BUCHA (TUBO GALVANIZADO DE 3/4 - FERRO 1")								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
2282	2"	50 mm	27	32	12	26	8	c/ 2 rolamentos
2281	2.1/2"	63 mm	27	32	12	26	8	c/ 2 rolamentos
2285	3"	76 mm	27	32	15	26	8	c/ 2 rolamentos
2284	4"	100 mm	29	32	17	26	8	c/ 2 rolamentos

ROLDANA LISA COM PINO



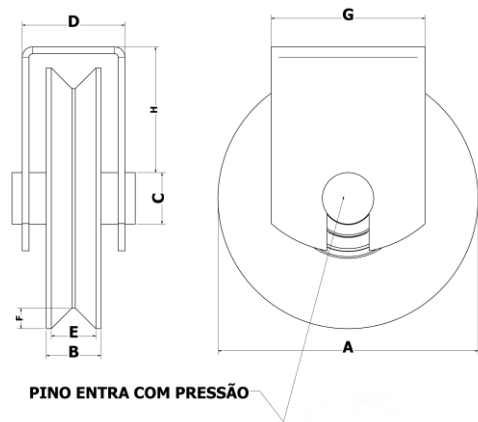
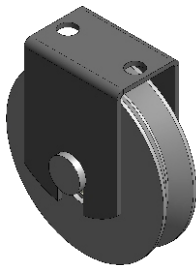
ROLDANA CANAL LISA COM PINO					
REF	A Ø	A Ø	B	C	D
2820	2"	50 mm	18	40	12
2821	2.1/2"	63 mm	19	40	15
2822	3"	76 mm	19	40	15
2823	4"	100 mm	20	40	17

ROLDANA LISA COM BUCHA



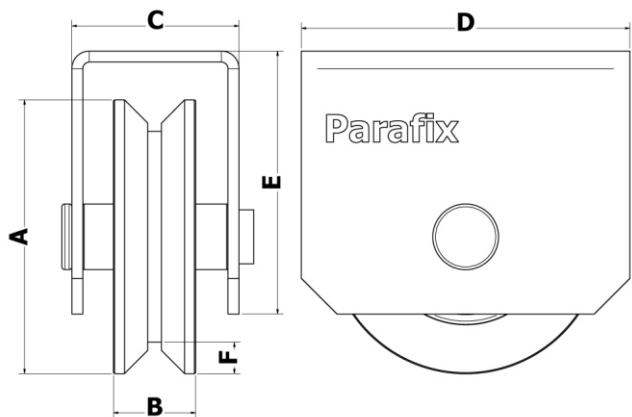
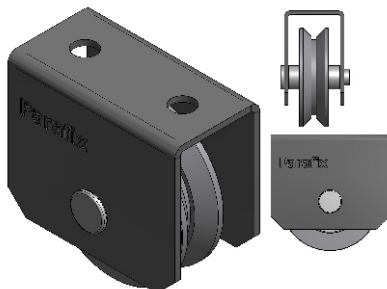
ROLDANA CANAL LISA COM BUCHA					
REF	A Ø	A Ø	B	C	D
2825	2"	50 mm	18	40	12
2826	2.1/2"	63 mm	19	40	15
2827	3"	76 mm	19	40	15
2828	4"	100 mm	20	40	17

ROLDANA EM V COM SUPORTE PRESSÃO

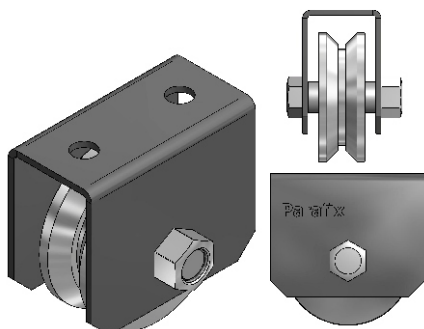


ROLDANA CANAL V COM SUPORTE PRESSÃO									
REF	A Ø	A Ø	B	C	D	E	F	G	H
2130	2"	50 mm	16	12	28	13	6	45	30
2131	2.3/8"	60 mm	16	12	28	13	6	45	30
2132	2.1/2"	63 mm	16	12	28	13	6	45	30
2133	2.3/4"	70 mm	16	15	28	13	6	45	40
2134	3"	76 mm	16	15	28	13	6	45	40
2135	3.1/4"	80 mm	16	15	28	13	6	45	40
2136	4"	100 mm	16	17	34	13	6	60	50

ROLDANA EM V COM CAIXA FECHADA

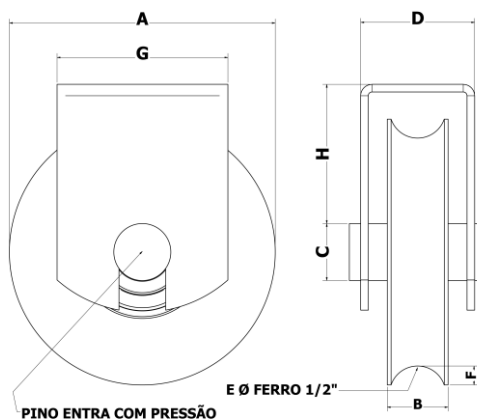
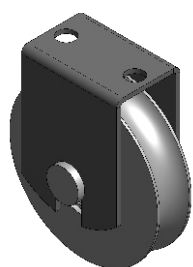


ROLDANA CANAL V COM SUPORTE FECHADO							
REF	A Ø	A Ø	B	C	D	E	F
2730	1.1/2"	38 mm	13	20	50	40	7
2731	2"	50 mm	16	25	62	46	7
2732	2"	50 mm	18	25	62	46	7
2733	2.1/2"	63 mm	16	30	70	48	7
2734	2.1/2"	63 mm	19	30	70	48	7
2735	3"	76 mm	16	30	85	55	7
2736	3"	76 mm	19	30	85	55	7
2737	4"	100 mm	16	30	101	67	7
2738	4"	100 mm	20	30	101	67	7



ROLDANA CANAL V COM SUPORTE FECHADO COM PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	Obs.
2740	1.1/2"	38 mm	13	20	50	40	7	Parafuso 5/16"
2741	2"	50 mm	16	25	62	46	7	Parafuso 5/16"
2742	2"	50 mm	18	25	62	46	7	Parafuso 5/16"
2743	2.1/2"	63 mm	16	30	70	48	7	Parafuso 5/16"
2744	2.1/2"	63 mm	19	30	70	48	7	Parafuso 5/16"
2745	3"	76 mm	16	30	85	55	7	Parafuso 3/8"
2746	3"	76 mm	19	30	85	55	7	Parafuso 3/8"
2747	4"	100 mm	16	30	101	67	7	Parafuso 3/8"
2748	4"	100 mm	20	30	101	67	7	Parafuso 3/8"

ROLDANA EM U FERRO REDONDO 1/2" COM SUPORTE PRESSÃO



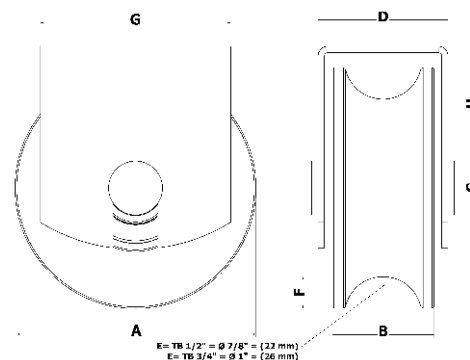
ROLDANA CANAL U FERRO 1/2" COM SUPORTE PRESSÃO									
REF	A Ø	A Ø	B	C	D	E	F	G	H
2140	2"	50 mm	16	12	28	13	6	45	30
2141	2.3/8"	60 mm	16	12	28	13	6	45	30
2142	2.1/2"	63 mm	16	12	28	13	6	45	30
2143	2.3/4"	70 mm	16	15	28	13	6	45	40
2144	3"	76 mm	16	15	28	13	6	45	40
2145	3.1/4"	80 mm	16	15	28	13	6	45	40
2146	4"	100 mm	16	17	34	13	6	60	50

ROLDANA EM U PARA TUBO 1/2" E 3/4" COM SUPORTE PRESSÃO

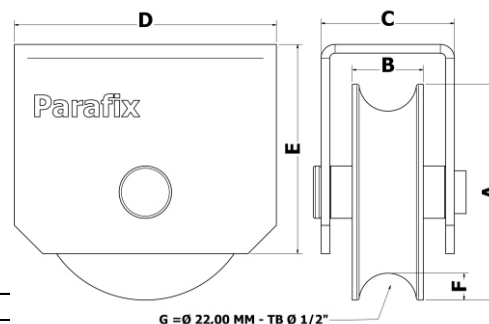


ROLDANA CANAL U TUBO 1/2" LARGA COM SUPORTE PRESSÃO (COM UM E DOIS ROLAMENTOS)										
REF	A Ø	A Ø	B	C	D	E	F	G	H	Obs.:
2320	2"	50 mm	24	12	42	22	10	45	30	c/ 1 rolamento
2321	2"	50 mm	24	12	42	22	10	45	30	c/ 2 rolamentos
2322	2.3/8"	60 mm	25	12	42	22	10	45	30	c/ 1 rolamento
2323	2.3/8"	60 mm	25	12	42	22	10	45	30	c/ 2 rolamentos
2324	2.1/2"	63 mm	25	12	42	22	10	45	30	c/ 1 rolamento
2325	2.1/2"	63 mm	25	12	42	22	10	45	30	c/ 2 rolamentos
2326	2.3/4"	70 mm	27	15	42	22	10	45	40	c/ 1 rolamento
2327	2.3/4"	70 mm	27	15	42	22	10	45	40	c/ 2 rolamentos
2328	3"	76 mm	27	15	42	22	10	45	40	c/ 1 rolamento
2329	3"	76 mm	27	15	42	22	10	45	40	c/ 2 rolamentos
2330	3.1/4"	80 mm	27	15	42	22	10	45	40	c/ 1 rolamento
2331	3.1/4"	80 mm	27	15	42	22	10	45	40	c/ 2 rolamentos
2332	4"	100 mm	27	15-17	42	22	10	60	46	c/ 1 rolamento
2333	4"	100 mm	27	15-17	42	22	10	60	46	c/ 2 rolamentos

ROLDANA CANAL U TUBO 3/4" LARGA COM SUPORTE PRESSÃO (COM 2 ROLAMENTOS)										
REF	A Ø	A Ø	B	C	D	E	F	G	H	Obs.:
2340	2.3/8"	60 mm	27	12	42	26	10	45	30	c/ 2 rolamentos
2341	2.1/2"	63 mm	27	12	42	26	10	45	30	c/ 2 rolamentos
2342	2.3/4"	70 mm	29	15	42	26	10	45	40	c/ 2 rolamentos
2343	3"	76 mm	29	15	42	26	10	45	40	c/ 2 rolamentos
2344	3.1/4"	80 mm	29	15	42	26	10	45	40	c/ 2 rolamentos
2345	4"	100 mm	29	15-17	42	26	10	60	46	c/ 2 rolamentos

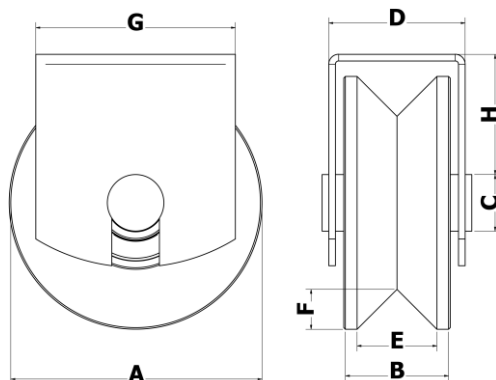
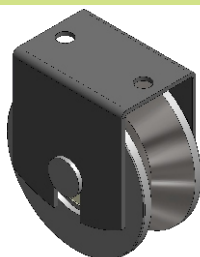


ROLDANA EM U TB 1/2 COM CAIXA FECHADA



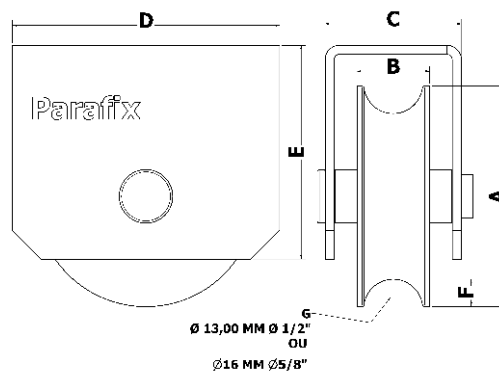
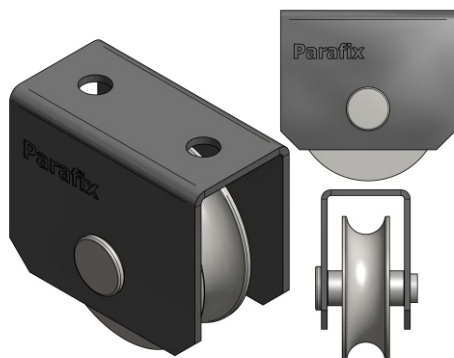
ROLDANA CANAL U FERRO 1/2" COM SUPORTE FECHADO								
REF	A Ø	A Ø	B	C	D	E	F	G
2712	2"	50 mm	23	25	60	46	6	TB 1/2"
2714	2.1/2"	63 mm	23	30	70	48	6	TB 1/2"
2716	3"	76 mm	23	30	85	55	6	TB 1/2"

ROLDANA EM V COM 2 ROLAMENTOS SUPORTE PRESSÃO



ROLDANA CANAL V LARGA COM PINO (COM UM E DOIS ROLAMENTOS)										
REF	A Ø	A Ø	B	C	D	E	F	G	H	Obs.:
2300	2"	50 mm	24	12	42	20	10	45	30	c/ 1 rolamento
2301	2"	50 mm	24	12	42	20	10	45	30	c/ 2 rolamentos
2302	2.3/8"	60 mm	25	12	42	20	10	45	30	c/ 1 rolamento
2303	2.3/8"	60 mm	25	12	42	20	10	45	30	c/ 2 rolamentos
2304	2.1/2"	63 mm	25	12	42	20	10	45	30	c/ 1 rolamento
2305	2.1/2"	63 mm	25	12	42	20	10	45	30	c/ 2 rolamentos
2306	2.3/4"	70 mm	27	15	42	22	12	45	40	c/ 1 rolamento
2307	2.3/4"	70 mm	27	15	42	22	12	45	40	c/ 2 rolamentos
2308	3"	76 mm	27	15	42	22	12	45	40	c/ 1 rolamento
2309	3"	76 mm	27	15	42	22	12	45	40	c/ 2 rolamentos
2310	3.1/4"	80 mm	27	15	42	22	12	45	40	c/ 1 rolamento
2311	3.1/4"	80 mm	27	15	42	22	12	45	40	c/ 2 rolamentos
2312	4"	100 mm	27	15-17	42	22	12	60	46	c/ 1 rolamento
2313	4"	100 mm	27	15-17	42	22	12	60	46	c/ 2 rolamentos

ROLDANA EM U FERRO REDONDO 1/2" , 5/8" COM SUPORTE PRESSÃO

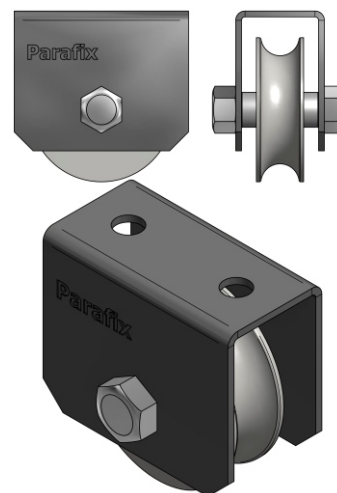


ROLDANA CANAL U FERRO 1/2" COM SUPORTE FECHADO								
REF	A Ø	A Ø	B	C	D	E	F	G
2710	1.1/2"	38 mm	16	20	50	40	6	1/2"
2711	2"	50 mm	16	25	60	46	6	1/2"
2712	2"	50 mm	18	25	60	46	6	1/2"
2713	2.1/2"	63 mm	16	30	70	48	6	1/2"
2714	2.1/2"	63 mm	19	30	70	48	6	1/2"
2715	3"	76 mm	16	30	85	55	6	1/2"
2716	3"	76 mm	19	30	85	55	6	1/2"
2717	4"	100 mm	16	30	101	67	6	1/2"
2718	4"	100 mm	20	30	101	67	6	1/2"

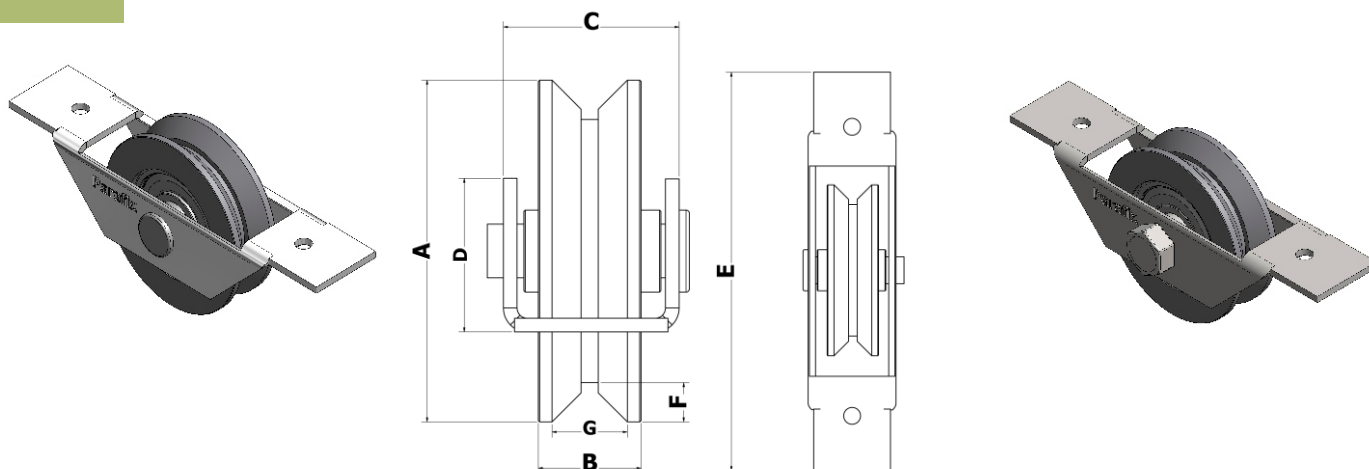
ROLDANA CANAL U FERRO 5/8" COM SUPORTE FECHADO								
REF	A Ø	A Ø	B	C	D	E	F	G
2720	2"	50 mm	19	25	60	46	8	5/8"
2722	2.1/2"	63 mm	19	30	70	48	8	5/8"
2724	3"	76 mm	19	30	85	55	8	5/8"
2726	4"	100 mm	19	30	101	67	8	5/8"

ROLDANA CANAL U FERRO 5/8" COM SUPORTE FECHADO COM PARAFUSO									
REF	A Ø	A Ø	B	C	D	E	F	G	Obs.
2800	2"	50 mm	19	25	60	46	8	5/8"	Parafuso 5/16"
2801	2.1/2"	63 mm	19	30	70	48	8	5/8"	Parafuso 5/16"
2802	3"	76 mm	19	30	85	55	8	5/8"	Parafuso 3/8"
2803	4"	100 mm	19	30	101	67	8	5/8"	Parafuso 3/8"

ROLDANA CANAL U FERRO 1/2" COM SUPORTE FECHADO COM PARAFUSOS									
REF	A Ø	A Ø	B	C	D	E	F	G	Obs.
2790	1.1/2"	38 mm	16	20	50	40	6	1/2"	Parafuso 5/16"
2791	2"	50 mm	16	25	60	46	6	1/2"	Parafuso 5/16"
2792	2"	50 mm	18	25	60	46	6	1/2"	Parafuso 5/16"
2793	2.1/2"	63 mm	16	30	70	48	6	1/2"	Parafuso 5/16"
2794	2.1/2"	63 mm	19	30	70	48	6	1/2"	Parafuso 5/16"
2795	3"	76 mm	16	30	85	55	6	1/2"	Parafuso 3/8"
2796	3"	76 mm	19	30	85	55	6	1/2"	Parafuso 3/8"
2797	4"	100 mm	16	30	101	67	6	1/2"	Parafuso 3/8"
2798	4"	100 mm	20	30	101	67	6	1/2"	Parafuso 3/8"



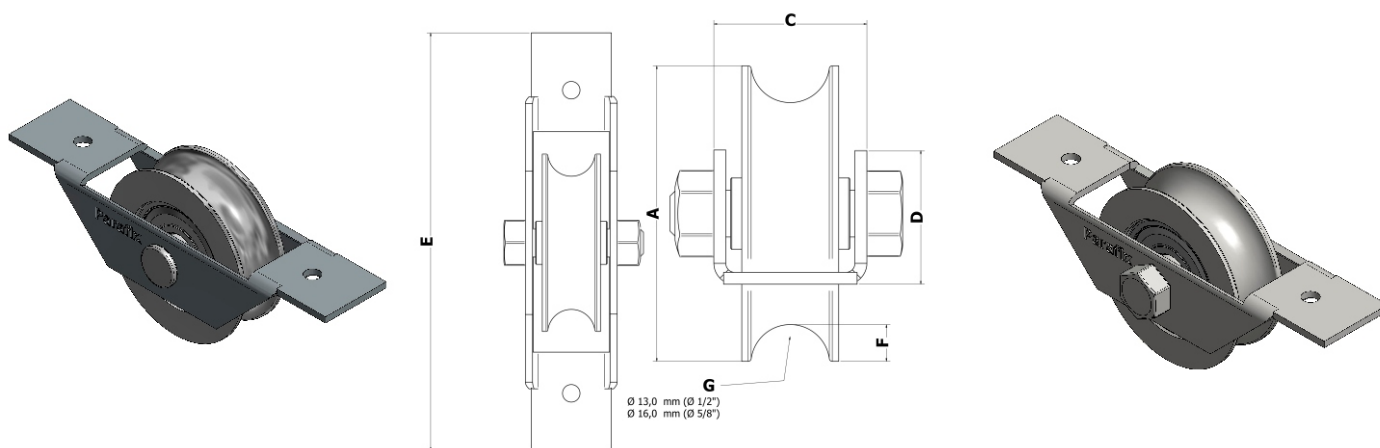
ROLDANA COM SUPORTE ABERTO EM V



ROLDANA CANAL V COM SUPORTE ABERTO							
REF	A Ø	A Ø	B	C	D	E	G
2500	1.1/2"	38 mm	15	24	24	120	6
2501	2"	50 mm	16	24	24	120	6
2502	2"	50 mm	18	24	24	120	6
2503	2.1/2"	63 mm	16	24	24	136	6
2504	2.1/2"	63 mm	19	24	24	136	6
2505	3"	76 mm	16	30	40	136	6
2506	3"	76 mm	19	30	40	136	6

ROLDANA CANAL V COM SUPORTE ABERTO E PARAFUSO								Obs:
REF	A Ø	A Ø	B	C	D	E	F	G
2520	1.1/2"	38 mm	15	24	24	120	6	13
2521	2"	50 mm	16	24	24	120	6	13
2522	2"	50 mm	18	24	24	120	6	13
2523	2.1/2"	63 mm	16	24	24	136	6	13
2524	2.1/2"	63 mm	19	24	24	136	6	16
2525	3"	76 mm	16	30	40	136	6	13
2526	3"	76 mm	19	30	40	136	6	16

ROLDANA COM SUPORTE ABERTO EM U



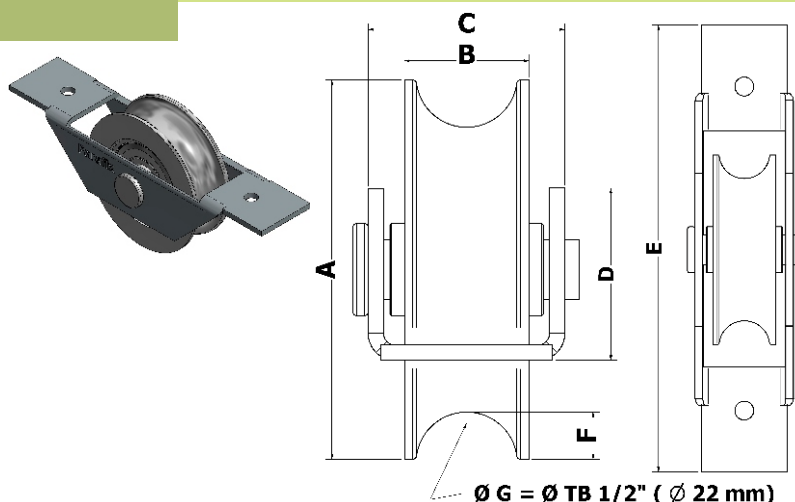
ROLDANA CANAL U FERRO 1/2" COM SUPORTE ABERTO							
REF	A Ø	A Ø	B	C	D	E	F
2540	1.1/2"	38 mm	16	24	24	120	6
2541	2"	50 mm	16	24	24	120	6
2542	2"	50 mm	18	24	24	120	6
2543	2.1/2"	63 mm	16	24	24	136	6
2544	2.1/2"	63 mm	19	24	24	136	6
2545	3"	76 mm	16	30	40	136	6
2546	3"	76 mm	19	30	40	136	6

ROLDANA CANAL U FERRO 5/8" COM SUPORTE ABERTO							
REF	A Ø	A Ø	B	C	D	E	F
2571	2"	50 mm	18	24	24	120	7
2572	2.1/2"	63 mm	19	24	24	136	7
2570	3"	76 mm	19	30	40	136	7

ROLDANA CANAL U FERRO 1/2" COM SUPORTE ABERTO COM PARAFUSO								Obs.:
REF	A Ø	A Ø	B	C	D	E	F	G
2560	1.1/2"	38 mm	16	24	24	120	6	13
2561	2"	50 mm	16	24	24	120	6	13
2562	2"	50 mm	18	24	24	120	6	13
2563	2.1/2"	63 mm	16	24	24	136	6	13
2564	2.1/2"	63 mm	19	24	24	136	6	13
2565	3"	76 mm	16	30	40	136	6	13
2566	3"	76 mm	19	30	40	136	6	13

ROLDANA CANAL U FERRO 5/8" COM SUPORTE ABERTO COM PARAFUSO								Obs.:
REF	A Ø	A Ø	B	C	D	E	F	G
2575	2"	50 mm	18	24	24	120	6	16
2576	2.1/2"	63 mm	19	24	24	136	6	16
2577	3"	76 mm	19	30	40	136	6	16

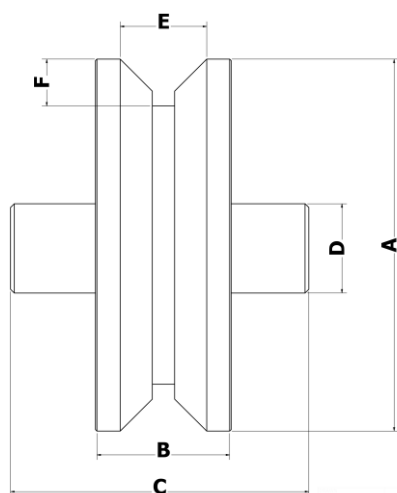
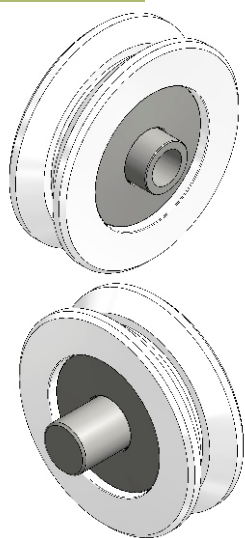
ROLDANA U TUBO REDONDO 1/2" COM SUPORTE ABERTO



Ø G = Ø TB 1/2" (Ø 22 mm)

ROLDANA CANAL U TUBO 1/2" COM SUPORTE ABERTO (22 MM)								
REF	A Ø	A Ø	B	C	D	E	F	G
2600	2"	50 mm	23	24	24	136	6	22
2601	2.1/2"	63 mm	23	24	24	136	6	22
2602	3"	76 mm	23	30	40	136	6	22

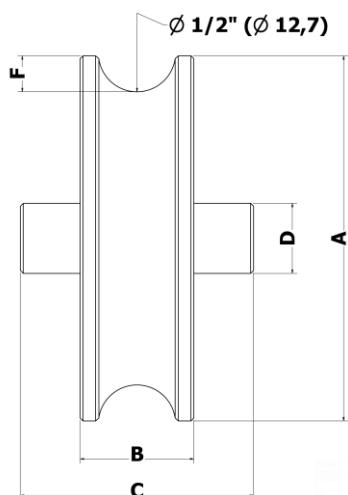
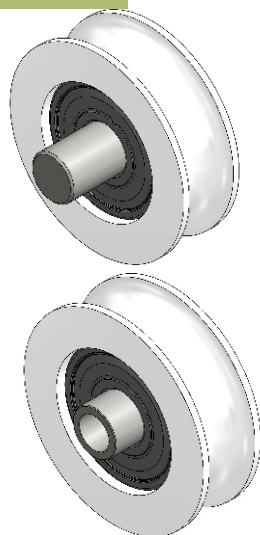
ROLDANA PLÁSTICA DE PP CANAL V COM PINO OU BUCHA PARA PARAFUSO



ROLDANA NYLON CANAL V COM BUCHA PARA PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	G
2371	2"	50 mm	18	25	12	13	6	5/16"
2372	2.1/2"	63 mm	19	25	12	13	6	5/16"
2373	3"	76 mm	19	25	15	13	6	3/8"
2374	4"	100 mm	20	25	17	16	6	3/8"

ROLDANA PP CANAL V COM PINO							
REF	A Ø	A Ø	B	C	D	E	F
2380	2"	50 mm	16	40	12	13	6
2381	2.1/2"	63 mm	16	40	12	13	6
2382	3"	76 mm	19	40	15	13	6
2383	4"	100 mm	20	40	15	13	6
2384	5"	120 mm	20	40	17	14	6
2385	6"	150 mm	20	40	20	16	6

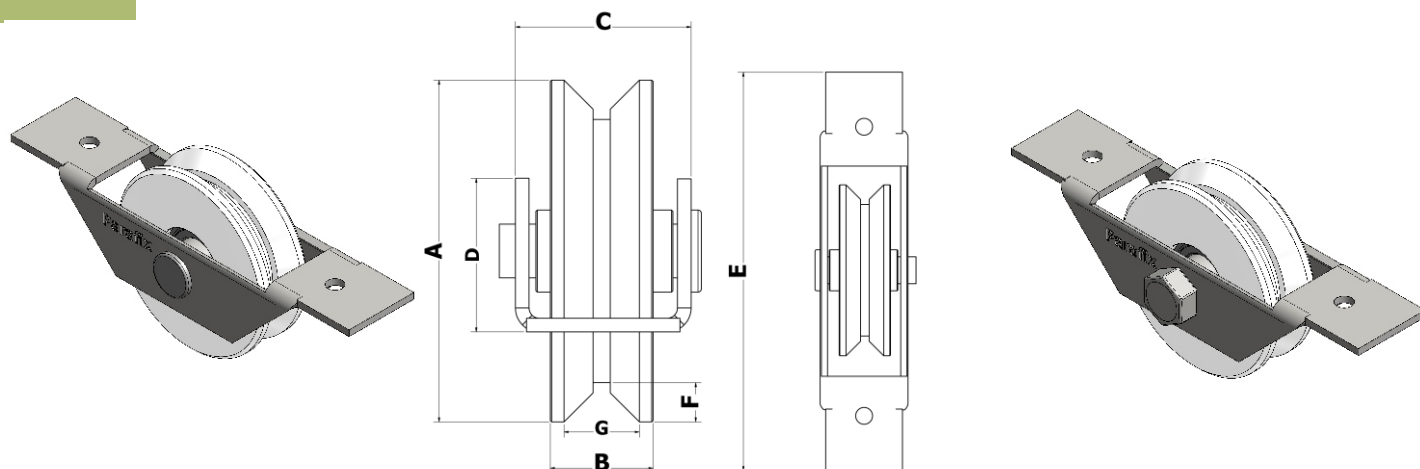
ROLDANA PLÁSTICA DE PP CANAL U COM PINO OU BUCHA PARA PARAFUSO



ROLDANA PLÁSTICA CANAL U FERRO 1/2" COM PINO							
REF	A Ø	A Ø	B	C	D	E	F
2016	2"	50 mm	18	40	12	13	6
2017	2.1/2"	63 mm	19	40	12	13	6
2018	3"	76 mm	19	40	15	13	6
2019	4"	100 mm	20	40	15	13	6

ROLDANA PLÁSTICA CANAL U FERRO 1/2" COM BUCHA PARA PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	PARAF
2160	2"	50 mm	18	25	12	13	6	5/16"
2161	2.1/2"	63 mm	19	25	12	13	6	3/8"
2162	3"	76 mm	19	25	15	13	6	3/8"
2163	4"	100 mm	20	25	17	13	6	3/8"

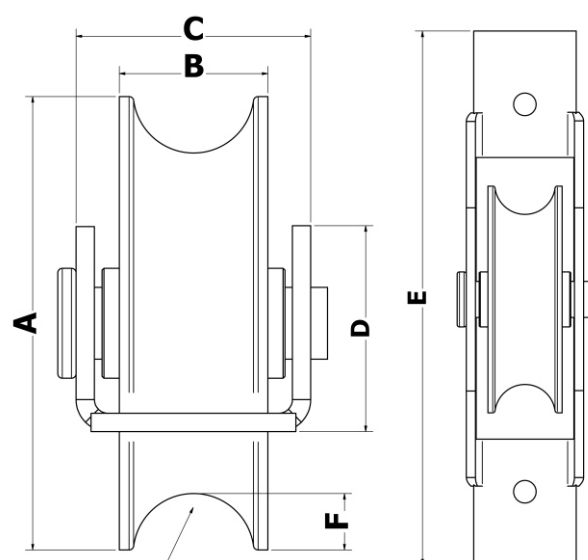
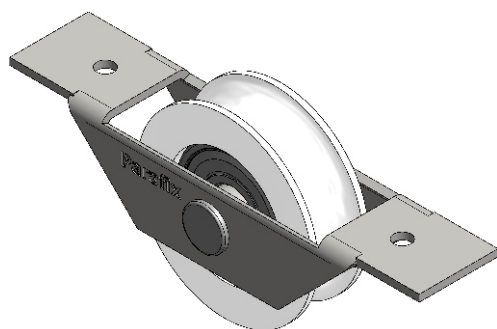
ROLDANA PLÁSTICA COM SUPORTE ABERTO EM V



ROLDANA NYLON CANAL V COM SUPORTE ABERTO								
REF	A Ø	A Ø	B	C	D	E	F	G
2510	2"	50 mm	16	24	24	120	6	13
2511	2.1/2"	63 mm	19	24	24	136	6	16
2512	3"	76 mm	19	30	40	136	6	16

ROLDANA NYLON CANAL V COM SUPORTE ABERTO E PARAFUSO									
REF	A Ø	A Ø	B	C	D	E	F	G	Obs:
2530	2"	50 mm	16	24	24	120	6	13	Parafuso 5/16"
2531	2.1/2"	63 mm	19	24	24	136	6	16	Parafuso 3/8"
2532	3"	76 mm	19	30	40	136	6	16	Parafuso 3/8"

ROLDANA PLÁSTICA COM SUPORTE ABERTO EM U

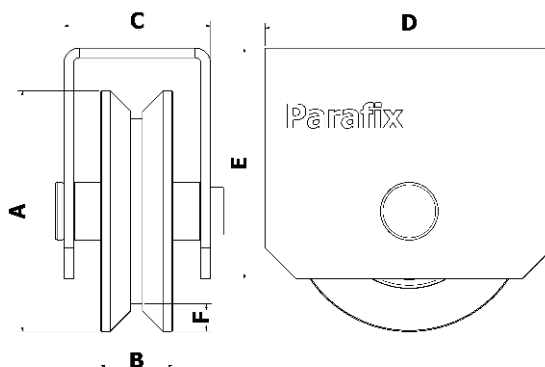


ROLDANA NYLON CANAL U FERRO 1/2" COM SUPORTE ABERTO								
REF	A Ø	A Ø	B	C	D	E	F	G
2550	2"	50 mm	16	24	24	120	6	13
2551	2.1/2"	63 mm	19	24	24	136	6	13
2552	3"	76 mm	19	30	40	136	6	13

ROLDANA NYLON CANAL U TUBO 1/2" COM SUPORTE ABERTO								
REF	A Ø	A Ø	B	C	D	E	F	G
2650	2"	50 mm	23	24	24	136	7	22
2651	2.1/2"	63 mm	23	24	24	136	7	22
2652	3"	70 mm	23	30	40	136	7	22

Ø G = Ø 1/2" (13 mm)
OU
Ø G = Ø TUBO 1/2" (22 mm)

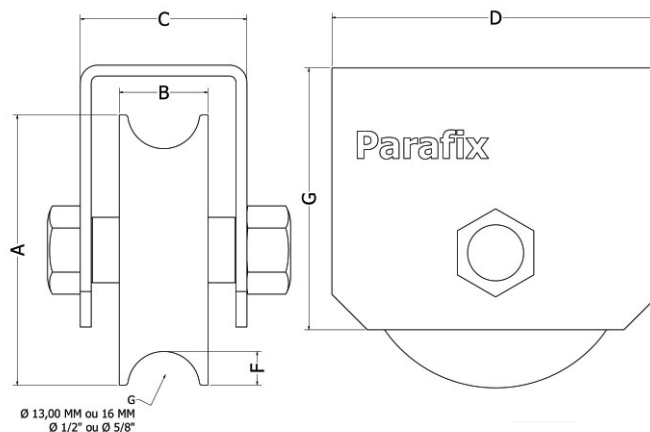
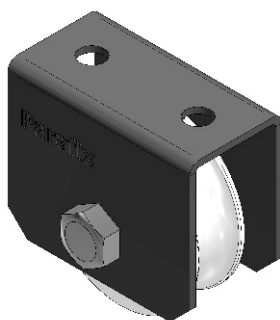
ROLDANA V PLÁSTICA COM CAIXA FECHADA



ROLDANA PP CANAL V COM SUPORTE FECHADO COM PARAFUSO								
REF	A Ø	A Ø	B	C	D	E	F	Obs.
2780	2"	50 mm	16	25	62	46	7	Parafuso 5/16"
2781	2.1/2"	63 mm	19	30	70	48	7	Parafuso 5/16"
2782	3"	76 mm	19	30	85	55	7	Parafuso 3/8"
2783	4"	100 mm	20	30	101	67	7	Parafuso 3/8"

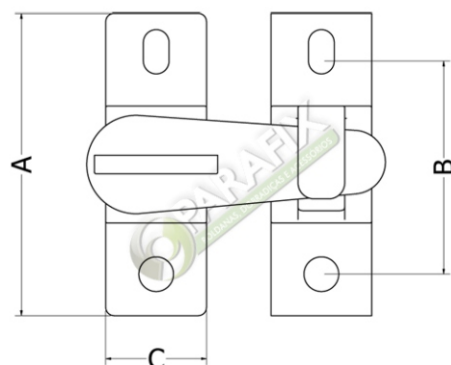
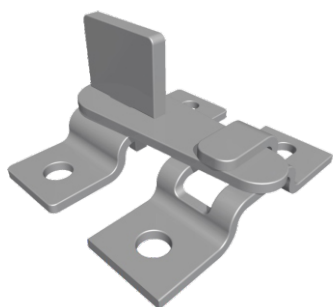
ROLDANA NYLON CANAL V COM SUPORTE FECHADO							
REF	A Ø	A Ø	B	C	D	E	F
2770	2"	50 mm	18	25	62	46	7
2771	2.1/2"	63 mm	19	30	70	48	7
2772	3"	76 mm	19	30	85	55	7
2773	4"	100 mm	19	30	101	67	7

ROLDANA U PLÁSTICA COM CAIXA FECHADA



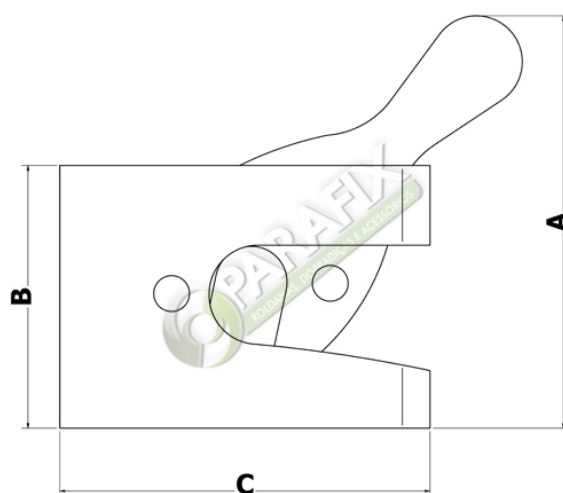
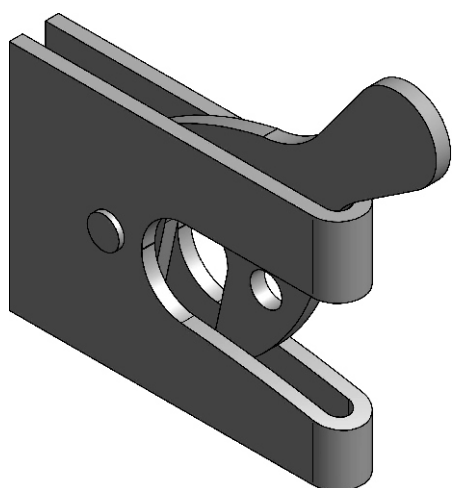
ROLDANA PP CANAL U FERRO 1/2" COM SUPORTE FECHADO COM PARAFUSO									
REF	A Ø	A Ø	B	C	D	E	F	G	Obs.
2760	2"	50 mm	16	25	60	46	6	1/2"	Parafuso 5/16"
2761	2.1/2"	63 mm	19	30	70	48	6	1/2"	Parafuso 5/16"
2762	3"	76 mm	19	30	85	55	6	1/2"	Parafuso 3/8"
2763	4"	100 mm	20	30	101	67	6	1/2"	Parafuso 3/8"

TRINCO PORTINHOLA



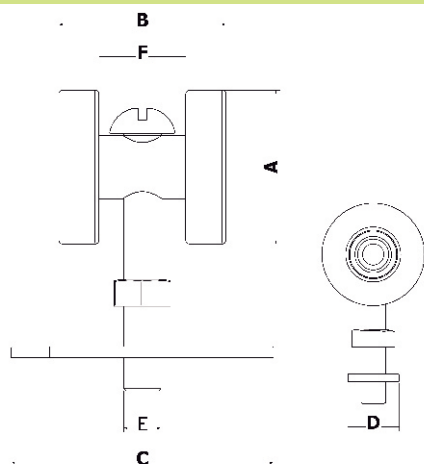
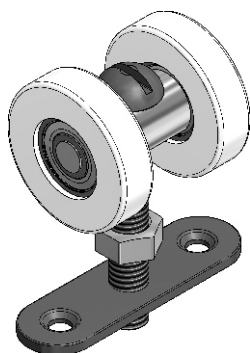
TRINCO PORTINHOLA ESTAMPADO			
REF	A	B	C
9020	37	28	13

BICO PAPAGAIO (BATE E FECHA)



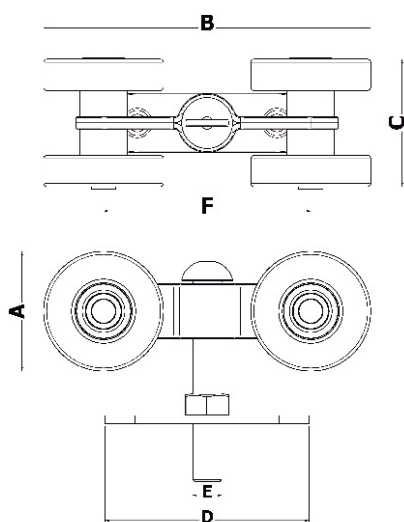
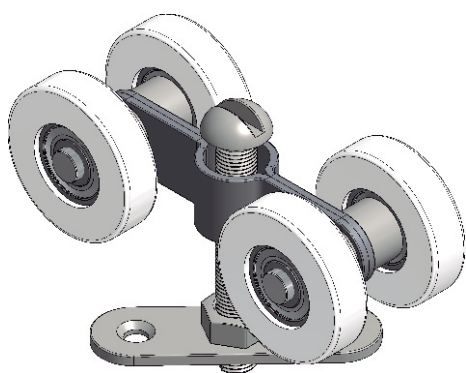
BICO DE PAPAGAIO PARA PORTÃO			
REF	A	B	C
9000	68	46	62

RODÍZIO DUPLO COM ROLAMENTO REVESTIDO DE NYLON



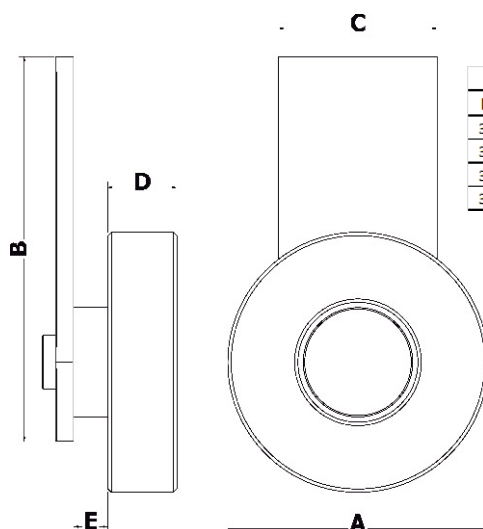
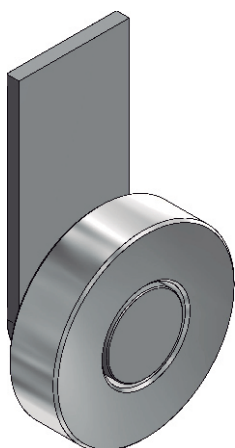
RODÍZIO DUPLO COM ROLAMENTO E NYLON								
REF	A Ø	A Ø	B	C	D	E	F	G
3010	1"	25	26	65	19	5/6"	11,5	c/ rolamento e nylon
3011	1.1/2"	38	41	65	19	3/8"	21	c/ rolamento e nylon
3012	1.1/2"	38	41	65	19	3/8"	21	rod. ferro c/ esferas

RODÍZIO QUADUPLO COM ROLAMENTO REVESTIDO DE NYLON



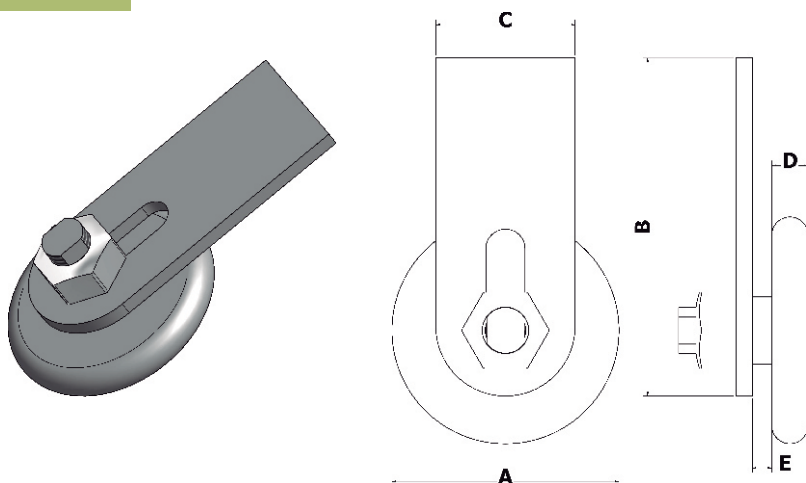
Rodizio quadruplo								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
3001	1"	25	91	23	65	3/8"	68	c/ rolamento e nylon
3002	1.1/2"	38	105	42	65	3/8"	68	c/ rolamento e nylon

RODÍZIO FIXO COM CHAPA



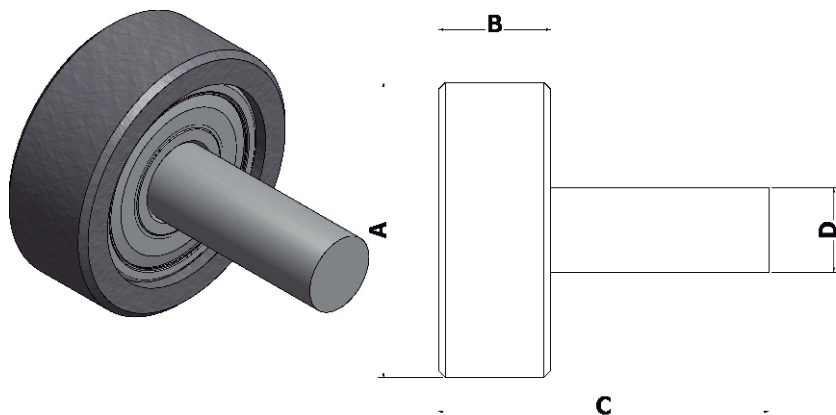
Rodizio fixo							
REF	A Ø	A Ø	B	C	D	E	Obs.:
3020	1.1/4"	31,75	55	23	6	5	ferro com esfera
3021	1.1/4"	31,75	55	23	10	5	c/ rolamento nylon
3022	1.1/2"	38,1	55	23	10	5	ferro com esfera
3023	1.1/2"	38,1	55	23	10	5	c/ rolamento nylon

RODÍZIO COM REGULAGEM



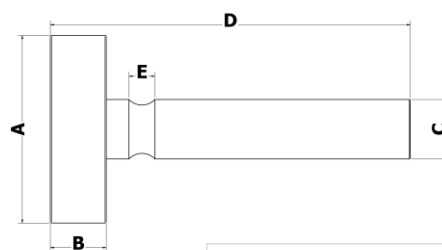
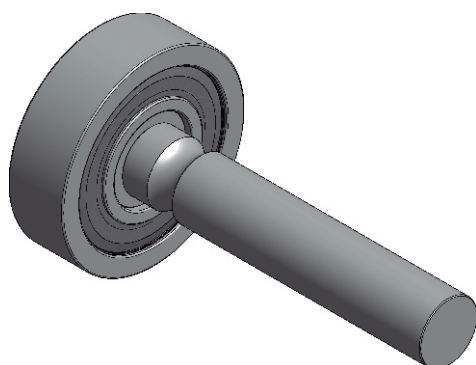
Rodízio com regulagem							Obs.:
REF	A Ø	A Ø	B	C	D	E	
3030	1.1/4"	31,75	55	23	6	5	ferro com esfera
3031	1.1/4"	31,75	55	23	10	5	c/ rolamento nylon
3032	1.1/2"	38,1	55	23	6	5	ferro com esfera
3033	1.1/2"	38,1	55	23	10	5	c/ rolamento nylon

GUIA SUPERIOR COM ROLAMENTO FERRO / NYLON



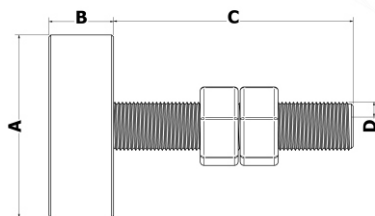
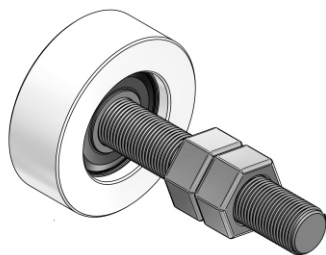
Guia superior com rolamento						Obs.:
REF	A Ø	B	C	D		
4060	42	14	60	12		ferro
4061	42	17	60	12		nylon
4062	44	14	60	12		ferro
4063	44	17	60	12		nylon
4064	66	15	60	15		ferro

RODÍZIO FIXO COM CHAPA



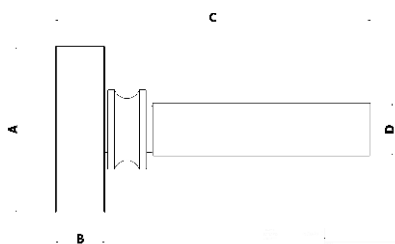
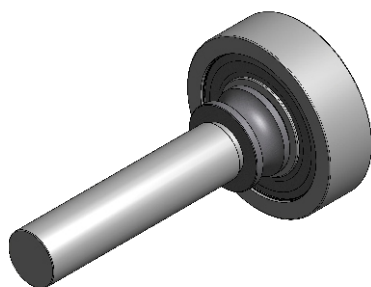
Guia superior com rolamento sem anel							Obs.:
REF	A Ø	B	C	D	E		
4020	47	14	15	90	7		c/ rolamento 47 mm
4021	48	15	15	90	7		
4022	48	15	15	90	7		c/ rolamento e nylon

GUIA SUPERIOR COM PARAFUSO



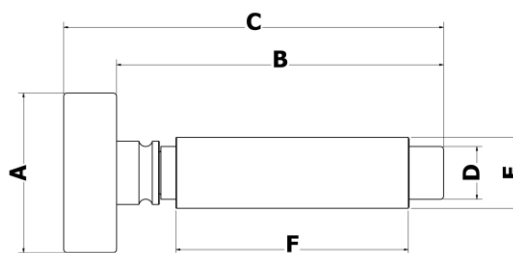
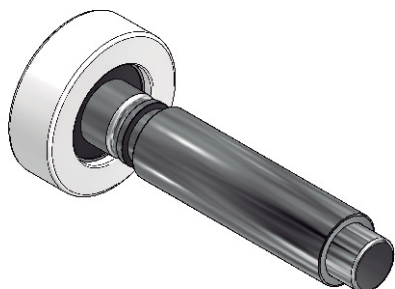
ROLDANA GUIA SUPERIOR COM PARAFUSO					
REF	A Ø	B	C	D	Obs.:
4000	48	17	65	1/2"	FERRO
4001	48	17	65	1/2"	NYLON
4002	44	17	65	1/2"	NYLON
4003	42	17	65	1/2"	NYLON

GUIA PARA PORTÃO CONTRA PESO COM ANEL



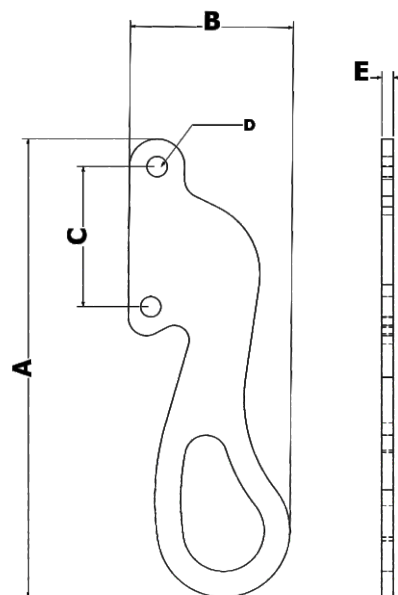
Guia superior com rolamento e anel para portão de contra-peso					
REF	A Ø	B	C	D	
4050	47	14	100	15	
4051	48	14	100	15	
4052	62	14	100	15	
4053	65	14	100	15	
4054	68	14	100	15	
4055	70	14	100	15	
4056	72	14	100	15	
4057	75	14	100	15	
4058	80	14	100	15	

GUIA PARA PORTÃO CONTRA PESO COM COM TUBO



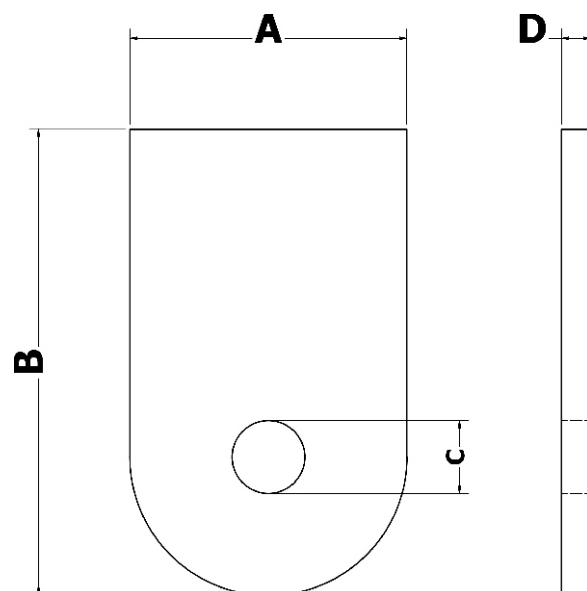
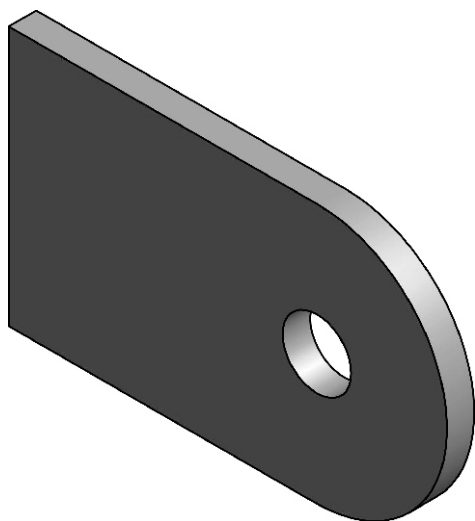
Roldana guia superior com rolamento e tubo							
REF	A Ø	B	C	D	E	F	Obs.:
4010	44	100	116	5/8"	21	70	nylon
4011	48	100	116	5/8"	21	70	nylon

ALAVANCA PARA JANELA BASCULANTE



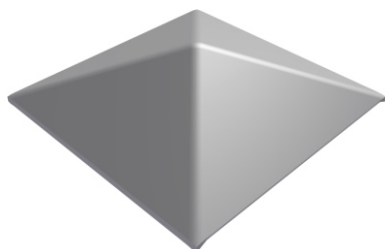
REF	A	B	C	D	E
320	125	50	33	5	3
321	145	60	40	5	3

CONSOLE PARA BASCULANTE (ORELHA)



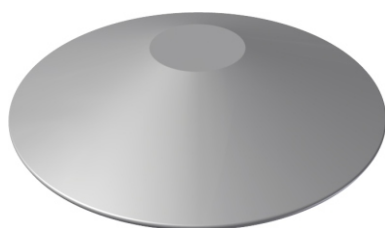
CONSOLE BASCULANTE (ORELHA)				
REF	A	B	C	D
9010	21	31	5	3

CHAPÉU PARA COLUNA DE FERROS



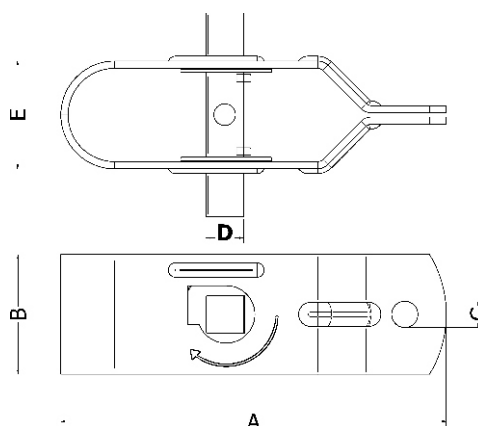
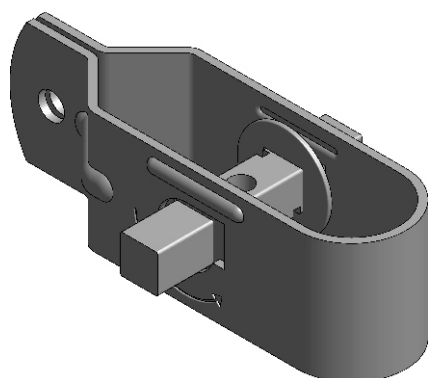
CHAPÉU PARA COLUNA DE FERRO	
7120	CHAPÉU PARA COLUNA REDONDA 50 X 50
7121	CHAPÉU PARA COLUNA REDONDA 60 X 60
7122	CHAPÉU PARA COLUNA REDONDA 65 X 65
7123	CHAPÉU PARA COLUNA REDONDA 70 X 70
7124	CHAPÉU PARA COLUNA REDONDA 80 X 80
7125	CHAPÉU PARA COLUNA REDONDA 90 X 90
7126	CHAPÉU PARA COLUNA REDONDA 100 X 100
7127	CHAPÉU PARA COLUNA REDONDA 120 X 120

CHAPÉU PARA COLUNA REDONDA



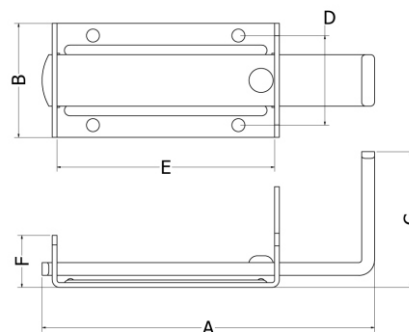
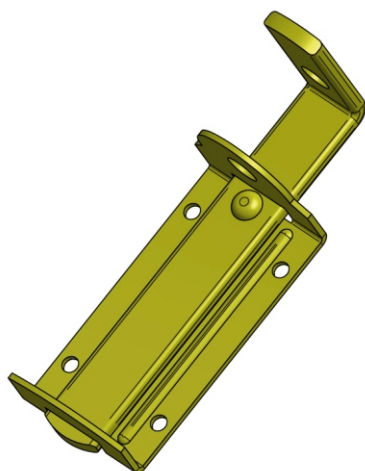
CHAPÉU PARA COLUNA REDONDA	
7100	CHAPÉU PARA COLUNA REDONDA 1.3/4" - Ø 44,45
7101	CHAPÉU PARA COLUNA REDONDA 2" - Ø 49,50
7102	CHAPÉU PARA COLUNA REDONDA 2.1/8" - Ø 53,97
7103	CHAPÉU PARA COLUNA REDONDA 2.1/4" - Ø 57,15
7104	CHAPÉU PARA COLUNA REDONDA 2.1/2" - Ø 63,00
7105	CHAPÉU PARA COLUNA REDONDA 2.3/4" - Ø 70,00
7106	CHAPÉU PARA COLUNA REDONDA 3" - Ø 76,00
7107	CHAPÉU PARA COLUNA REDONDA 3.1/4" - Ø 82,55
7108	CHAPÉU PARA COLUNA REDONDA 4" - Ø 101
7109	CHAPÉU PARA COLUNA REDONDA 4.5/8" - Ø 117,49

ESTICADOR DE ARAME



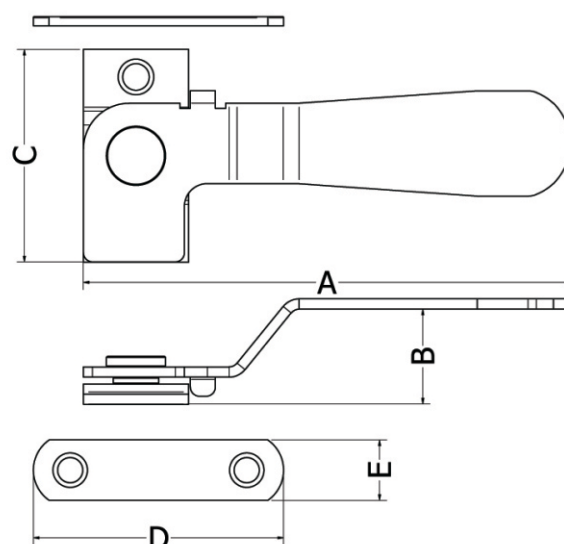
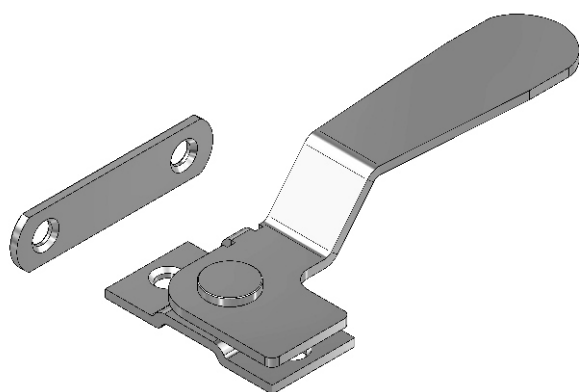
ESTICADOR DE ARAME					
REF	A	B	C	D	E
9040	83	25	5,3	7,94	22,45
9041	83	28	5,3	9,52	22,45

TRINCO CHATO PARA PORTÃO



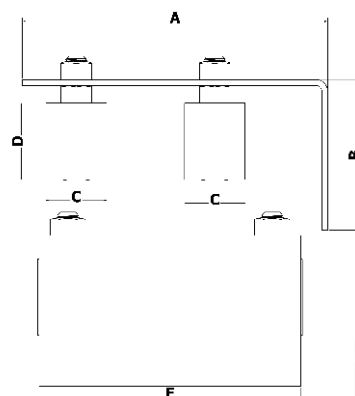
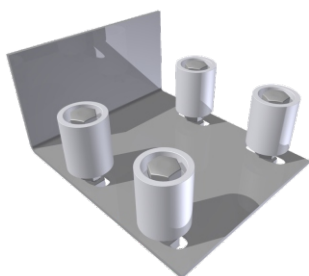
FECHO CHATO PARA PORTÃO (TRINCO)							
REF	A	B	C	D	E	F	TAM
9202	70	40	35	25	48	15	Nº 2
9203	103	52	50	35	60	18	Nº 3
9204	127	52	50	38	85	18	Nº 4
9205	144	52	50	38	105	18	Nº 5
9206	180	52	50	38	125	18	Nº 6

FECHO MAXIM-AR



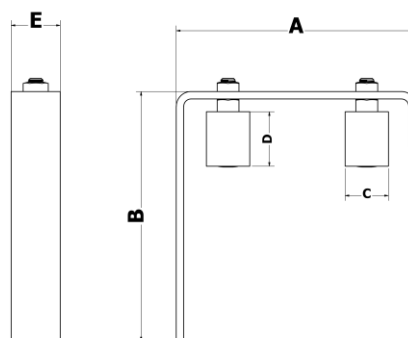
FECHO MAXIM-AR					
REF	A	B	C	D	E
9050	98	22	54	54	16
9051	132	26	54	54	16

GUIA PARA PORTÃO DE CORRER 4 ROLETES



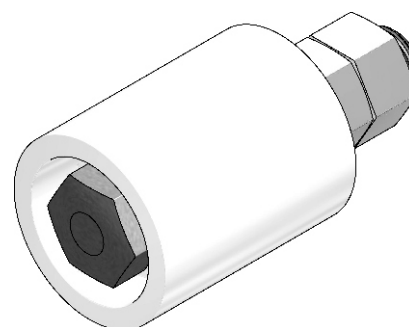
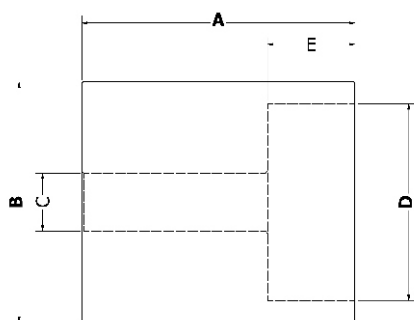
REF	A	B	C	D	E
8502	140	70	30	35	120

GUIA PARA PORTÃO DE CORRER 2 ROLETES



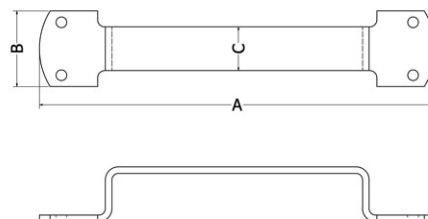
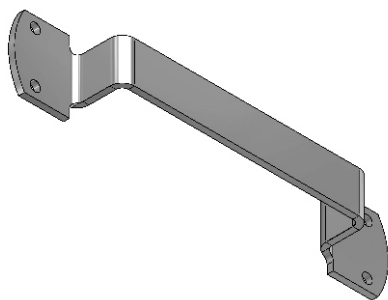
REF	A	B	C	D	E
8501	153	150	30	35	32

ROLETES SUPERIOR PARA PORTÃO DE CORRER



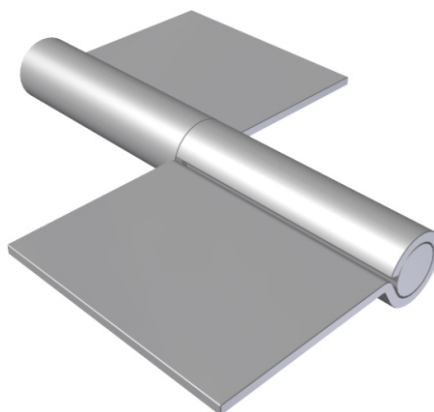
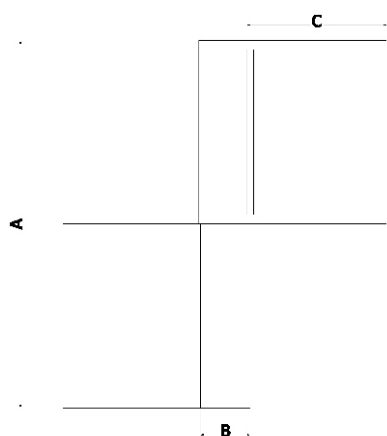
REF	A	B	C	D	E
8504	40	20	8	15	9
8505	40	25	8	18	9
8506	35	25	8	18	9
8507	55	30	10	18	9

PUXADOR DE PORTA U



PUXADOR DE PORTA U			
REF	A	B	C
9030	144	32	18

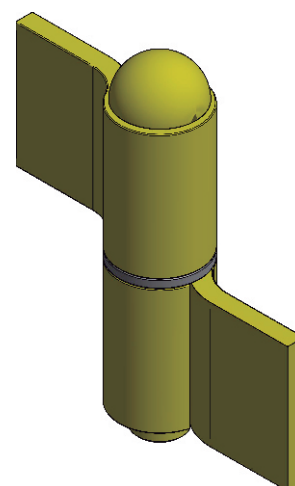
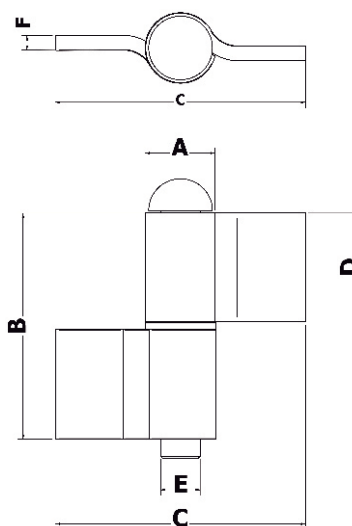
DOBRADIÇA DE CHAPA PARA PORTÃO



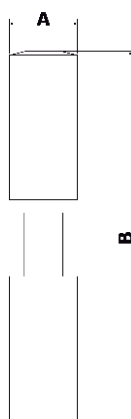
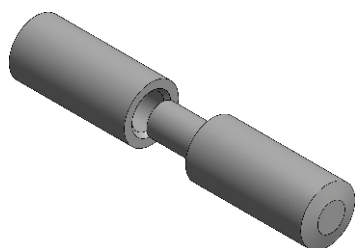
Dobradiça chapa			
REF	A	B	C
5030	50	15	37
5031	100	15	37

DOBRADIÇA GONZO COM ABA

Dobradiça (Gonzo) com aba						
REF	A Ø	B	C	D	E	F
5001	5/8"	42	58	19,5	3/8"	3 mm
5002	3/4"	53	67	25,4	7/16"	4,17 mm
5003	3/4"	64	67	31	7/16"	4,17 mm
5004	3/4"	78	67	38	7/16"	4,17 mm

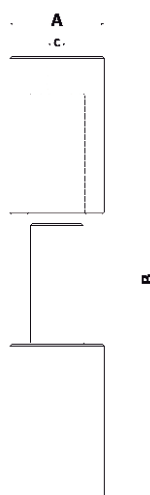
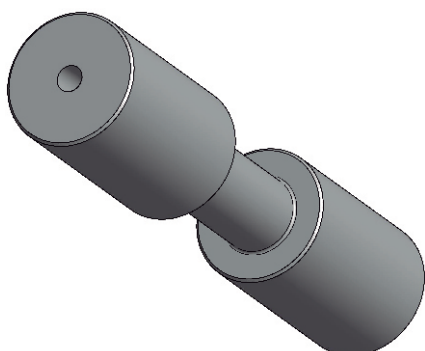


DOBRADIÇA GONZO CILÍNDRICA



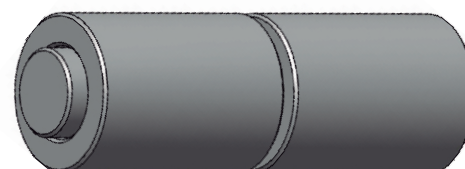
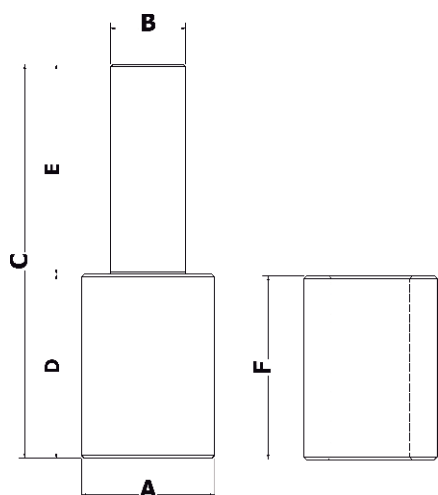
Dobradiça (Gonzo)		
REF	A Ø	B
5010	3/8"	50
5011	1/2"	55
5012	5/8"	70
5013	3/4"	80
5014	7/8"	80
5015	1"	85
5016	1.1/4"	120
5017	1.1/2"	137

DOBRADIÇA GONZO CILÍNDRICA COM FURO



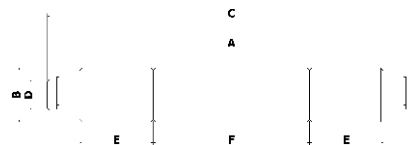
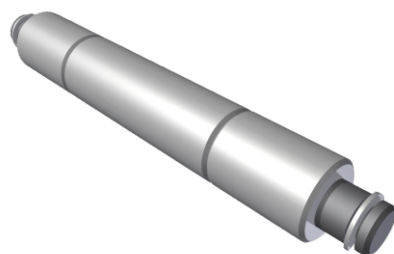
Dobradiça (Gonzo) COM FURO			
REF	A Ø	B	C
5040	3/8"	50	3,5
5041	1/2"	55	3,5
5042	5/8"	70	4,5
5043	3/4"	80	4,5
5044	7/8"	90	4,5
5045	1"	90	5
5046	1.1/4"	120	5
5047	1.1/2"	137	5

DOBRADIÇA GONZO CILÍNDRICA COM FURO PASSANTE



Dobradiça (Gonzo) passante						
REF	A Ø	B	C	D	E	F
5020	3/8"	6	55	25	30	25
5021	1/2"	8	60	27,5	32	27,5
5022	5/8"	10	60	27,5	32	27,5
5023	3/4"	11	68	32	36	32
5024	7/8"	12,7	75	35	40	35
5025	1"	14,29	75	35	40	35

DOBRADIÇA TRIPLA PARA PORTÃO DE ARTICULAÇÃO



DOBRADIÇA TRIPLA PARA PORTÃO DE ELEVACÃO								
REF	A Ø	A Ø	B	C	D	E	F	Obs.:
5050	1/2"	12,7	74	80	3/8"	22	30	sem trava
5051	1/2"	12,7	74	80	3/8"	22	30	com trava
5052	5/8"	15,88	80	86	3/8"	25	30	sem trava
5053	5/8"	15,88	80	86	3/8"	25	30	com trava
5054	3/4"	19,04	96	102	1/2"	25	40	sem trava
5055	3/4"	19,04	96	102	1/2"	25	40	com trava
5056	7/8"	22,22	117	135	1/2"	34	55	sem trava
5057	7/8"	22,22	117	135	1/2"	34	55	com trava
5058	1"	25,4	117	135	1/2"	34	55	sem trava
5059	1"	25,4	117	135	1/2"	34	55	com trava

PONTEIRA INTERNA PARA TUBO



REF	DESCRIÇÃO
7001.00	PONTEIRA PLÁST INTERNA TUBO 15 x 15
7002.00	PONTEIRA PLÁST INTERNA TUBO 20 x 20
7003.00	PONTEIRA PLÁST INTERNA TUBO 25 x 25
7004.00	PONTEIRA PLÁST INTERNA TUBO 30 x 20
7005.00	PONTEIRA PLÁST INTERNA TUBO 30 x 30
7006.00	PONTEIRA PLÁST INTERNA TUBO 40 x 20
7007.00	PONTEIRA PLÁST INTERNA TUBO 40 x 40
7008.00	PONTEIRA PLÁST INTERNA TUBO 50 x 30
7009.00	PONTEIRA PLÁST INTERNA TUBO 50 x 50

PONTEIRA INTERNA PARA TUBO REDONDO



REF	DESCRIÇÃO
7010.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 5/8"
7011.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 3/4"
7012.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 7/8"
7013.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 1"
7014.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 1.1/4"
7015.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 1.1/2"
7016.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 2"
7017.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 2.1/2"
7018.00	PONTEIRA PLÁST INTERNA TUBO REDONDO 3"

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Máquinas de ponta
Materiais de qualidade
Inovação nos processos
Comprometimento

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