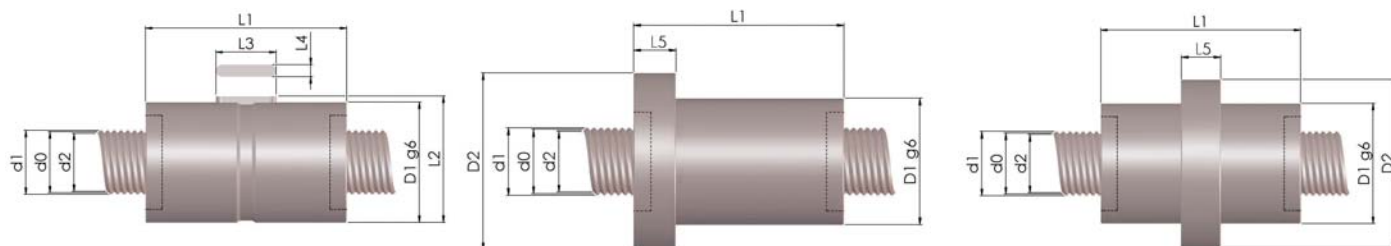


Type RV - Ground screws



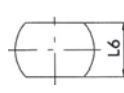
Flange shapes
and Drilling's drawings



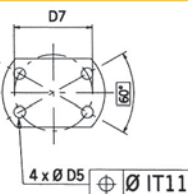
Shape
A



Shape
B



Drilling's
drawing
1



Type	D x P	N					Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque																		
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
RV	3.5 x 1	3	3.5	3.62	3.35	0.86	8.3	6.5	32.6	5.2	3.2	20.5	410	3.0	15	35	4.8	25	31	41	16.0	10	2	13	17						
RV	5 x 1	3	4.5	4.62	4.35	0.85	10.3	7.8	33.0	6.5	3.9	20.8	520	4.0	19	39	4.8	29	31	41	20.3	10	3	13	21						
RV	5 x 2	3	4.5	4.71	4.17	0.88	7.2	7.8	23.0	4.5	3.9	14.5	300	4.0	19	39	4.8	29	31	41	20.3	10	3	13	21						
RV	5 x 3	3	4.5	4.78	3.97	0.88	5.3	7.5	18.8	3.4	3.7	11.8	210	4.0	19	39	4.8	29	31	41	20.3	10	3	13	21						
RV	7 x 1	4	7	7.09	6.89	0.84	11.7	10.9	46.3	7.4	5.5	29.2	480	4.0	19	41	4.8	31	31	41	20.3	10	3	13	21						
RV	7 x 2	4	7	7.16	6.76	0.88	9.3	11.4	32.3	5.9	5.7	20.3	300	4.0	19	41	4.8	31	31	41	20.3	10	3	13	21						
RV	7 x 3	4	7	7.23	6.62	0.89	7.6	11.1	26.2	4.8	5.6	16.5	210	4.0	19	41	4.8	31	31	41	20.3	10	3	13	21						
RV	7 x 4	4	7	7.28	6.47	0.89	6.6	11.0	22.9	4.2	5.5	14.4	170	4.0	19	41	4.8	31	31	41	20.3	10	3	13	21						
RV	7 x 5	4	7	7.33	6.32	0.90	5.4	10.0	19.6	3.4	5.0	12.4	140	4.0	19	41	4.8	31	31	41	20.3	10	3	13	21						
RV	8 x 1	4	8	8.09	7.89	0.83	11.5	10.7	43.8	7.2	5.4	27.6	570	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	8 x 2	4	8	8.17	7.76	0.87	9.2	11.4	30.4	5.8	5.7	19.1	360	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	8 x 3	4	8	8.24	7.63	0.89	7.5	11.0	24.1	4.7	5.5	15.2	260	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	8 x 4	4	8	8.30	7.49	0.89	6.7	11.1	21.4	4.2	5.6	13.5	210	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	8 x 5	4	8	8.35	7.33	0.89	5.8	10.7	18.9	3.7	5.3	11.9	170	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	8 x 6	4	8	8.38	7.34	0.90	5.0	10.2	17.1	3.2	5.1	10.8	140	5.0	21	41	4.8	31	31	41	22.3	10	3	13	23						
RV	10 x 1	4	10	10.09	9.89	0.80	18.7	17.6	55.3	11.8	8.8	34.8	600	6.0	26	48	4.8	36	31	41	27.3	10	3	13	26						
RV	10 x 2	5	10.5	10.64	10.31	0.86	13.1	18.1	46.4	8.3	9.1	29.2	410	6.0	24	46	4.8	36	31	41	25.3	10	3	13	26						
RV	10 x 3	5	10.5	10.70	10.21	0.88	11.3	17.9	36.9	7.1	9.0	23.3	300	6.0	24	46	4.8	36	31	41	25.3	10	3	13	26						
RV	10 x 4	5	10.5	10.75	10.1	0.89	10.5	18.2	32.6	6.6	9.1	20.5	240	6.0	24	46	4.8	36	31	41	25.3	10	3	13	26						
RV	10 x 5	5	10.5	10.79	9.98	0.89	9.6	17.9	29.1	6.0	9.0	18.3	200	6.0	24	46	4.8	36	31	41	25.3	10	3	13	26						
RV	12 x 1	4	12	12.09	11.89	0.79	19.0	17.2	51.6	12.0	8.6	32.5	760	8.0	30	50	4.8	40	31	41	31.3	10	3	13	32						
RV	12 x 2	5	12	12.14	11.81	0.85	12.8	18.0	43.5	8.1	9.0	27.4	520	8.0	26	46	4.8	36	31	41	27.3	10	3	13	28						
RV	12 x 3	5	12	12.22	11.74	0.87	11.2	18.1	34.9	7.1	9.1	22.0	390	8.0	26	46	4.8	36	31	41	27.3	10	3	13	28						
RV	12 x 4	5	12	12.25	11.65	0.89	10.0	17.8	29.9	6.3	8.9	18.8	310	8.0	26	46	4.8	36	31	41	27.3	10	3	13	28						
RV	12 x 5	5	12	12.32	11.56	0.89	10.5	18.1	27.3	6.6	9.1	17.2	260	8.0	26	46	4.8	36	31	41	27.3	10	3	13	28						
RV	12 x 8	5	12	12.42	11.13	0.90	8.3	15.7	20.4	5.2	7.8	12.8	170	8.0	26	46	4.8	36	31	41	27.3	10	3	13	28						

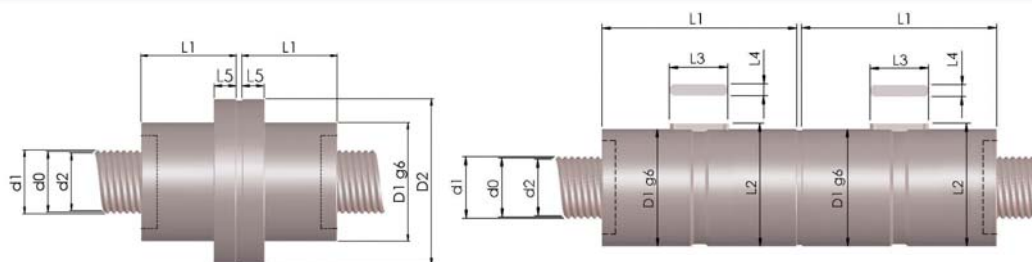
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

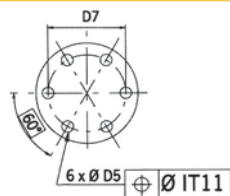
Terms used in tables

P Lead	d1 External diameter	F_k Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	

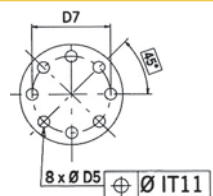
Type RV - Ground screws



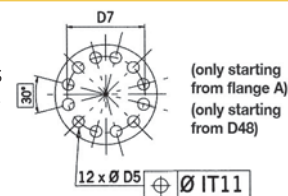
Drilling's
drawing
2



Drilling's
drawing
3



Drilling's
drawing
4



							Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque						Without wipers		With wipers							
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
Type	D x P	N	d0	d1	d2		C	Co	F _K	C	Co	F _K	F _V	M _V	D1	D2	D5	D7	L1	L1	L2	L3	L4	L5	L6			
RV	15 x 2	5	15	15.14	14.81	0.84	19.3	26.3	51.1	12.2	13.2	32.2	600	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	15 x 3	5	15	15.22	14.74	0.86	17.4	27.3	41.5	10.9	13.6	26.1	460	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	15 x 4	5	15	15.25	14.65	0.88	15.9	27.6	35.7	10.0	13.8	22.5	370	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	15 x 5	5	15	15.32	14.56	0.89	15.0	27.8	32.2	9.4	13.9	20.3	310	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	15 x 6	5	15	15.37	14.47	0.89	15.2	27.3	29.2	9.6	13.6	18.4	270	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	15 x 8	5	15	15.46	14.16	0.90	13.9	25.3	24.4	8.7	12.6	15.4	210	10	34	56	5.8	45	35	51	35.7	14	4	18	36			
RV	20 x 2	5	19.5	19.65	19.32	0.82	47.8	59.7	80.3	30.1	29.8	50.6	1070	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 3	5	19.5	19.71	19.22	0.85	43.7	63.3	64.9	27.6	31.7	40.9	840	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 4	5	19.5	19.80	19.15	0.87	40.2	64.3	55.7	25.3	32.2	35.1	700	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 5	5	19.5	19.83	19.02	0.88	37.1	64.0	49.1	23.4	32.0	31.0	590	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 6	5	19.5	19.94	18.97	0.88	38.4	64.0	44.8	24.2	32.0	28.2	520	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 8	5	19.5	19.98	18.69	0.89	38.2	64.0	39.2	24.1	32.0	24.7	410	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	20 x 10	5	19.5	20.04	18.62	0.90	42.9	61.9	34.7	27.0	30.9	21.9	340	20	42	64	5.8	53	55	65	43.7	20	4	20	44			
RV	21 x 2	5	21	21.14	20.82	0.81	51.1	63.5	81.5	32.2	31.8	51.4	1290	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 3	5	21	21.21	20.72	0.84	46.9	67.7	65.7	29.6	33.8	41.4	1030	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 4	5	21	21.28	20.62	0.86	43.2	68.9	56.5	27.2	34.5	35.6	850	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 5	5	21	21.33	20.52	0.87	39.9	68.8	49.8	25.2	34.4	31.4	730	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 6	5	21	21.39	20.42	0.88	41.5	69.0	45.3	26.1	34.5	28.6	630	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 8	5	21	21.49	20.19	0.89	41.4	69.3	39.7	26.1	34.6	25.0	500	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	21 x 10	5	21	21.58	19.96	0.89	46.7	67.2	35.1	29.4	33.6	22.1	420	25	45	68	5.8	56	54	64	47	20	5	18	47			
RV	23 x 2	5	22.5	22.65	22.32	0.80	54.4	67.2	82.7	34.3	33.6	52.1	1490	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 3	5	22.5	22.72	22.24	0.84	50.0	71.9	66.5	31.5	36.0	41.9	1200	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 4	5	22.5	22.79	22.15	0.86	46.2	73.5	57.2	29.1	36.8	36.1	1000	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 5	5	22.5	22.87	22.06	0.87	42.7	73.5	50.4	26.9	36.8	31.8	860	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 6	5	22.5	22.89	21.97	0.88	44.4	73.9	45.9	28.0	36.9	28.9	750	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 8	5	22.5	23.00	21.71	0.89	44.6	74.5	40.2	28.1	37.2	25.3	600	30	45	67	7	56	55	65	46.7	20	4	20	47			
RV	23 x 10	5	22.5	23.12	21.62	0.89	50.3	72.4	35.6	31.7	36.2	22.4	500	30	45	67	7	56	55	65	46.7	20	4	20	47			

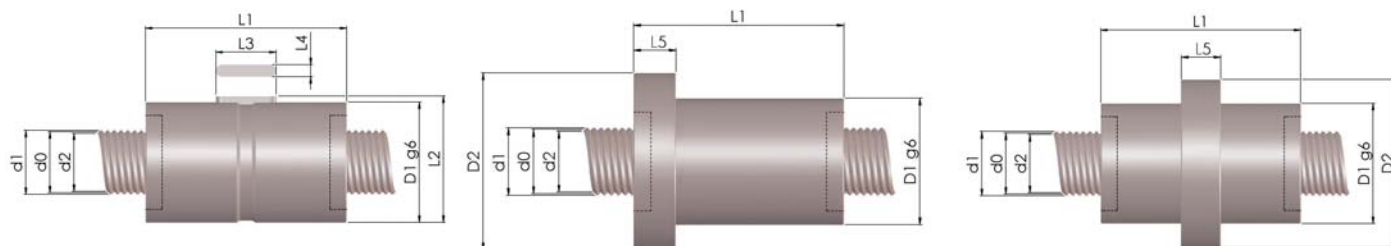
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

Terms used in tables

P Lead	d1 External diameter	F_k Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	

Type RV - Ground screws



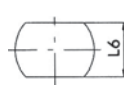
Flange shapes
and Drilling's drawings



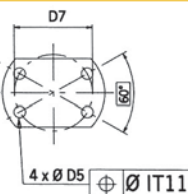
Shape
A



Shape
B



Drilling's
drawing
1



Type	D x P	N					Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque															Without wipers		With wipers					
			[mm]	[mm]	[mm]	Efficiency	C	Co	F _K	C	Co	F _K	F _V	M _V	D1	D2	D5	D7	L1	L1	L2	L3	L4	L5	L6										
RV	25 x 2	5	24	24.14	23.82	0.80	78.0	93.2	100.5	49.1	46.6	63.3	1690	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	25 x 4	5	24	24.28	23.63	0.85	66.5	102.6	69.5	41.9	51.3	43.8	1140	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	25 x 5	5	24	24.34	23.53	0.87	62.5	104.2	61.9	39.4	52.1	39.0	980	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	25 x 6	5	24	24.40	23.42	0.87	64.4	103.9	55.9	40.6	51.9	35.2	860	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	25 x 8	5	24	24.51	23.21	0.89	75.3	104.8	48.7	47.5	52.4	30.7	690	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	25 x 10	5	24	24.60	22.98	0.89	84.1	103.6	43.6	53.0	51.8	27.5	570	35	53	84	7	70	64	78	55.5	25	6	20	55										
RV	27 x 2	5	27	27.14	26.82	0.78	87.8	103.5	103.4	55.3	51.7	65.2	1810	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	27 x 4	5	27	27.29	26.65	0.85	74.5	114.2	71.0	46.9	57.1	44.7	1250	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	27 x 5	5	27	27.37	26.56	0.86	70.3	116.4	63.3	44.3	58.2	39.9	1080	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	27 x 6	5	27	27.40	26.43	0.87	72.6	116.4	57.1	45.7	58.2	36.0	950	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	27 x 8	5	27	27.51	26.22	0.88	85.3	118.2	49.6	53.8	59.1	31.2	770	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	27 x 10	5	27	27.62	26.00	0.89	95.7	117.4	44.5	60.3	58.7	28.0	640	40	53	83	7	68	65	79	55.2	20	5	22	55										
RV	30 x 2	5	30	30.15	29.82	0.77	112.4	129.1	116.2	70.8	64.5	73.2	2130	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 4	5	30	30.29	29.65	0.84	96.9	145.4	79.8	61.0	72.7	50.3	1500	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 5	5	30	30.37	29.56	0.85	90.7	147.5	70.9	57.2	73.8	44.6	1300	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 6	5	30	30.40	29.43	0.86	85.5	148.2	64.1	53.9	74.1	40.4	1150	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 8	5	30	30.52	29.22	0.88	80.0	152.3	55.8	50.4	76.2	35.2	940	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 10	5	30	30.63	29.01	0.89	88.1	150.6	49.6	55.5	75.3	31.3	790	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 15	5	30	30.87	28.44	0.90	91.6	143.2	39.9	57.7	71.6	25.1	560	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 20	5	30	31.05	27.81	0.90	106.7	153.8	35.2	67.2	76.9	22.2	440	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	30 x 30	5	30	31.27	26.41	0.90	49.1	85.5	20.9	31.0	42.8	13.2	295	50	62	92	9	77	71	85	64.7	20	6	27	64										
RV	36 x 2	5	36	36.15	35.83	0.75	107.2	124.1	107.1	67.5	62.1	67.4	2490	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 4	5	36	36.28	35.63	0.82	91.9	140.9	73.1	57.9	70.5	46.1	1800	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 5	5	36	36.37	35.56	0.84	88.9	147.4	65.5	56.0	73.7	41.2	1580	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 6	5	36	36.41	35.44	0.85	83.3	147.8	59.1	52.5	73.9	37.2	1410	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 8	5	36	36.54	35.24	0.87	76.9	150.5	50.8	48.5	75.3	32.0	1160	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 10	5	36	36.65	35.12	0.88	70.9	149.8	45.0	44.7	74.9	28.3	980	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 15	5	36	36.80	34.48	0.89	94.8	151.4	37.4	59.7	75.7	23.6	710	65	74	110	9	92	70	84	76.7	28	6	25	76										
RV	36 x 20	5	36	37.12	33.88	0.90	105.1	155.8	31.6	66.2	77.9	19.9	560	65	74	110	9	92	70	84	76.7	28	6	25	76										

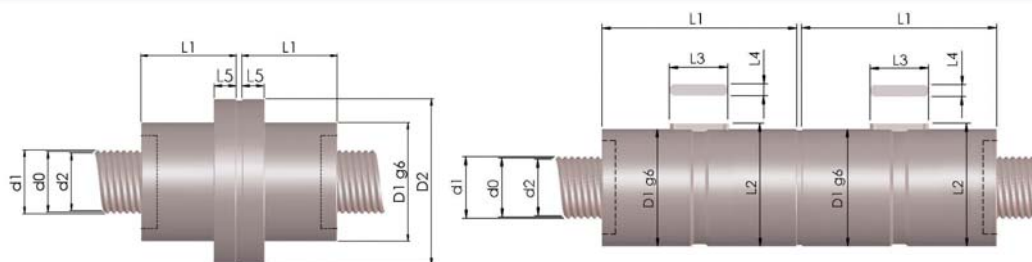
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

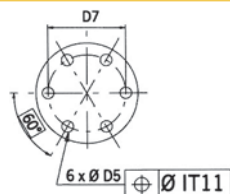
Terms used in tables

P Lead	d1 External diameter	F_k Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	

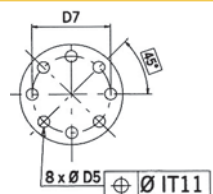
Type RV - Ground screws



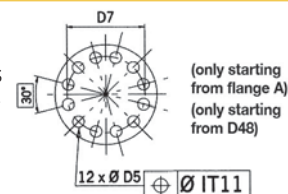
Drilling's drawing
2



Drilling's drawing
3



Drilling's drawing
4



							Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque						Without wipers	With wipers						
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Type	D x P	N	d0	d1	d2		C	Co	F _K	C	Co	F _K	F _V	M _V	D1	D2	D5	D7	L1	L1	L2	L3	L4	L5	L6	
RV	39 x 2	5	39	39.15	38.82	0.73	181.4	197.0	142.1	114.3	98.5	89.5	2910	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 4	5	39	39.29	38.65	0.82	156.8	226.2	97.5	98.8	113.1	61.5	2140	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 5	5	39	39.35	38.54	0.84	150.2	235.2	86.4	94.6	117.6	54.5	1890	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 6	5	39	39.42	38.44	0.85	142.5	238.4	78.5	89.8	119.2	49.5	1690	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 8	5	39	39.54	38.24	0.87	131.9	243.7	67.7	83.1	121.8	42.7	1390	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 10	5	39	39.74	38.12	0.88	124.4	247.4	60.5	78.3	123.7	38.1	1190	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 15	5	39	39.92	37.49	0.89	137.8	241.1	48.9	86.8	120.5	30.8	860	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 20	5	39	40.15	36.90	0.90	143.7	265.5	42.9	90.6	132.8	27.0	680	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	39 x 25	5	39	40.50	36.80	0.90	142.3	251.7	38.2	89.7	125.9	24.0	550	80	80	116	11	98	90	100	82.7	28	6	25	82	
RV	44 x 6	6	44	44.35	43.54	0.84	122.0	231.2	88.4	76.8	115.6	55.7	2030	100	80	118	11	100	80	90	82.7	28	6	25	84	
RV	44 x 12	6	44	44.65	43.03	0.88	133.8	240.5	61.8	84.3	120.3	39.0	1270	100	80	118	11	100	80	90	82.7	28	6	25	84	
RV	44 x 18	6	44	44.90	42.47	0.89	136.3	236.7	50.5	85.9	118.3	31.8	920	100	80	118	11	100	80	90	82.7	28	6	25	84	
RV	44 x 24	6	44	45.12	41.88	0.90	139.2	229.8	43.9	87.7	114.9	27.6	720	100	80	118	11	100	80	90	82.7	28	6	25	84	
RV	44 x 30	6	44	45.28	41.23	0.90	137.3	237.4	38.9	86.5	118.7	24.5	590	100	80	118	11	100	80	90	82.7	28	6	25	84	
RV	48 x 5	5	48	48.35	47.54	0.82	247.0	383.8	111.6	155.6	191.9	70.3	2580	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 10	5	48	48.67	47.05	0.87	207.6	412.7	77.5	130.8	206.4	48.8	1680	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 15	5	48	48.99	46.53	0.88	219.3	415.7	62.9	138.1	207.9	39.6	1240	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 20	5	48	49.21	45.97	0.89	223.3	473.4	55.9	140.7	236.7	35.2	980	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 25	5	48	49.43	45.38	0.90	240.5	448.4	49.2	151.5	224.2	31.0	810	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 30	5	48	49.62	44.75	0.89	171.7	407.5	43.1	108.1	203.7	27.2	690	120	100	150	13.5	127	115	127	103	45	8	37	102	
RV	48 x 5	6	48	48.30	47.63	0.82	243.6	418.4	142.0	153.5	209.2	89.5	2600	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 6	6	48	48.35	47.54	0.84	236.1	431.7	129.5	148.7	215.8	81.6	2350	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 8	6	48	48.46	47.38	0.86	220.7	442.7	111.4	139.0	221.4	70.2	1970	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 10	6	48	48.56	47.21	0.87	206.6	443.6	98.3	130.2	221.8	61.9	1700	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 12	6	48	48.66	47.04	0.88	217.6	447.9	89.8	137.1	224.0	56.6	1490	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 15	6	48	48.79	46.76	0.88	224.2	450.1	80.6	141.3	225.0	50.7	1260	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 18	6	48	48.92	46.49	0.89	225.4	438.3	72.7	142.0	219.2	45.8	1090	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 20	6	48	49.00	46.30	0.89	226.9	495.7	70.3	143.0	247.9	44.3	1000	120	86	122	11	104	115	127	88.7	45	6	35	88	
RV	48 x 24	6	48	49.15	45.91	0.90	260.4	485.0	64.2	164.1	242.5	40.5	850	120	86	122	11	104	115	127	88.7	45	6	35	88	

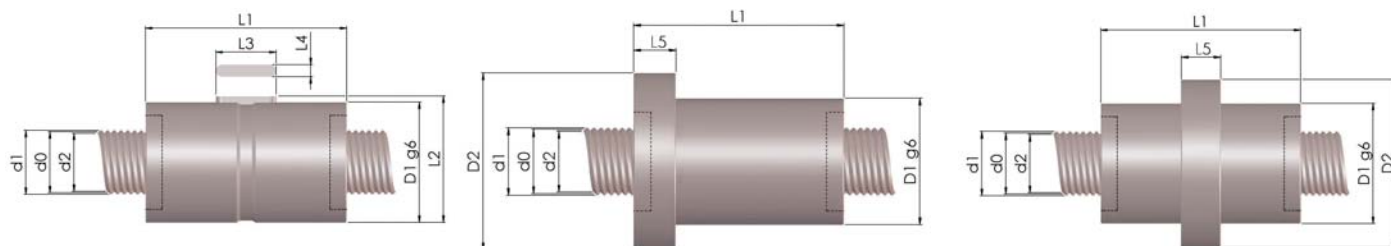
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

Terms used in tables

P Lead	d1 External diameter	F_k Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	

Type RV - Ground screws



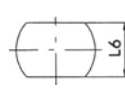
Flange shapes
and Drilling's drawings



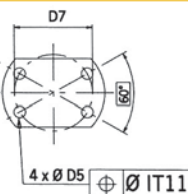
Shape
A



Shape
B



Drilling's
drawing
1



							Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque						Without wipers	With wipers							
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Type	D x P	N	d0	d1	d2		C	Co	F _K	C	Co	F _K	F _V	M _V	D1	D2	D5	D7	L1	L1	L2	L3	L4	L5	L6		
RV	51 x 5	5	51	51.36	50.55	0.81	273.1	420.6	116.2	172.0	210.3	73.2	2930	140	102	147	13.5	124	125	139	105	50	8	35	104		
RV	51 x 10	5	51	51.74	50.12	0.86	227.0	449.2	79.8	143.0	224.6	50.3	1920	140	102	147	13.5	124	125	139	105	50	8	35	104		
RV	51 x 15	5	51	51.96	49.53	0.88	244.2	460.6	65.2	153.9	230.3	41.1	1430	140	102	147	13.5	124	125	139	105	50	8	35	104		
RV	51 x 20	5	51	52.23	48.99	0.89	294.1	505.8	56.5	185.3	252.9	35.6	1140	140	102	147	13.5	124	125	139	105	50	8	35	104		
RV	51 x 25	5	51	52.46	48.41	0.90	296.1	514.6	52.0	186.5	257.3	32.7	940	140	102	147	13.5	124	125	139	105	50	8	35	104		
➤RV	60 x 15	5	60	60.99	58.55	0.87	497.3	1211.8	97.2	-	-	-	-	-	122	166	13.5	-	-	189	-	-	-	-	-		
➤RV	60 x 20	5	60	61.26	58.02	0.88	444.4	1191.0	184.1	-	-	-	-	-	122	166	13.5	-	-	189	-	-	-	-	-		
➤RV	60 x 25	5	60	61.51	57.46	0.89	402.3	1163.9	75.3	-	-	-	-	-	122	166	13.5	-	-	189	-	-	-	-	-		
➤RV	60 x 30	5	60	61.74	56.87	0.89	367.2	1134.5	69.1	-	-	-	-	-	122	166	13.5	-	-	189	-	-	-	-	-		
RV	60 x 6	6	60	60.37	59.56	0.82	257.7	474.9	127.0	162.3	237.5	80.0	3190	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 10	6	60	60.61	59.27	0.86	231.1	504.7	97.2	145.6	252.3	61.3	2360	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 12	6	60	60.67	59.05	0.87	221.3	510.8	88.3	139.4	255.4	55.6	2090	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 18	6	60	60.96	58.53	0.88	214.9	507.3	71.2	135.4	253.6	44.8	1550	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 20	6	60	61.04	58.34	0.89	265.4	594.7	70.0	167.2	297.4	44.1	1430	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 30	6	60	61.43	57.38	0.90	284.5	530.5	54.6	179.2	265.3	34.4	1020	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	60 x 42	6	60	61.78	56.10	0.90	245.2	500.8	46.4	154.5	250.4	29.3	760	180	110	150	13.5	130	106	124	113.2	40	8	30	112		
RV	64 x 6	6	64	64.36	63.55	0.81	307.3	558.6	138.5	193.6	279.3	87.2	3430	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	64 x 12	6	64	64.68	63.06	0.86	264.7	604.9	96.2	166.8	302.4	60.6	2280	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	64 x 18	6	64	64.97	62.54	0.88	238.1	612.3	78.0	150.0	306.1	49.1	1700	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	64 x 24	6	64	65.23	61.99	0.89	269.6	682.8	68.2	169.9	341.4	42.9	1360	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	64 x 30	6	64	65.46	61.41	0.90	265.3	658.5	60.7	167.1	329.2	38.2	1130	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	64 x 36	6	64	65.65	60.79	0.90	276.7	667.3	57.0	174.3	333.7	35.9	960	200	115	180	17.5	150	118	129	118	45	8	40	117		
RV	70 x 6	6	69	69.36	68.55	0.80	406.6	724.0	160.5	-	-	-	-	-	130	172	13.5	152	140	170	133.7	50	10	45	132		
RV	70 x 12	6	69	69.68	68.06	0.86	347.6	781.9	110.5	-	-	-	-	-	130	172	13.5	152	140	170	133.7	50	10	45	132		
RV	70 x 18	6	69	69.98	67.55	0.88	310.1	786.9	89.0	-	-	-	-	-	130	172	13.5	152	140	170	133.7	50	10	45	132		
RV	70 x 24	6	69	70.25	67.01	0.89	338.1	773.9	76.5	-	-	-	-	-	130	172	13.5	152	140	170	133.7	50	10	45	132		
RV	75 x 5	5	75	75.36	74.55	0.77	568.4	918.0	171.8	-	-	-	-	-	150	210	17.5	180	175	191	153	63	10	45	152		
RV	75 x 10	5	75	75.70	74.08	0.84	525.3	1227.0	121.0	-	-	-	-	-	150	210	17.5	180	175	191	153	63	10	45	152		
RV	75 x 15	5	75	76.01	73.58	0.86	469.6	1261.0	97.9	-	-	-	-	-	150	210	17.5	180	175	191	153	63	10	45	152		
➤RV	75 x 15	5	75	76.01	73.58	0.86	643.8	1862.3	115.3	-	-	-	-	-	150	210	17.5	-	-	233	-	-	-	-	-		
RV	75 x 20	5	75	76.31	73.07	0.88	492.3	1265.0	84.6	-	-	-	-	-	150	210	17.5	180	175	191	153	63	10	45	152		
➤RV	75 x 20	5	75	76.31	73.07	0.87	569.8	1812.8	98.7	-	-	-	-	-	150	210	17.5	-	-	233	-	-	-	-	-		
➤RV	75 x 25	5	75	76.58	72.53	0.88	525.3	1798.9	88.5	-	-	-	-	-	150	210	17.5	-	-	233	-	-	-	-	-		
➤RV	75 x 30	5	75	76.83	71.97	0.89	481.1	1754.3	80.6	-	-	-	-	-	150	210	17.5	-	-	233	-	-	-	-	-		

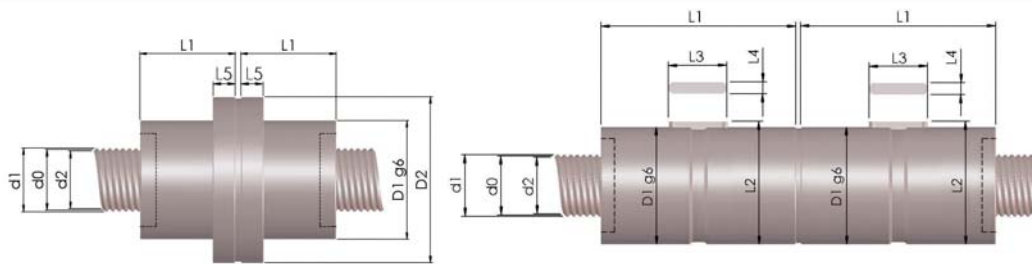
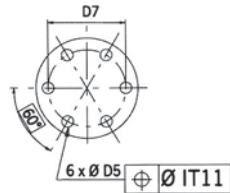
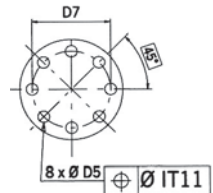
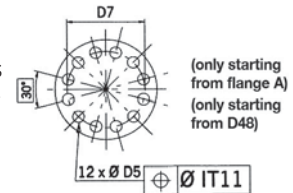
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

Terms used in tables

P Lead	d1 External diameter	F_K Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_V Preloading force
N Number of starts	C Dynamic load capacity	M_V Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	➤ High capacity definition

Type RV - Ground screws

Drilling's
drawing
2Drilling's
drawing
3Drilling's
drawing
4

							Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque						Without wipers	With wipers						
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Type	D x P	N	d0	d1	d2		C	Co	F _K	C	Co	F _K	F _V	M _V	D1	D2	D5	D7	L1	L1	L2	L3	L4	L5	L6	
RV	80 x 6	6	80	80.37	79.56	0.79	399.8	738.9	154.2	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 8	6	80	80.49	79.41	0.82	375.3	771.9	131.7	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 10	6	80	80.61	79.27	0.84	384.8	942.1	119.3	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 12	6	80	80.74	79.12	0.85	374.0	968.5	109.5	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 18	6	80	81.00	78.56	0.87	394.5	962.3	87.4	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 20	6	80	81.09	78.39	0.88	411.3	954.6	82.4	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 24	6	80	81.28	78.04	0.88	423.1	957.0	75.7	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 30	6	80	81.53	77.48	0.89	426.9	954.6	68.2	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	80 x 36	6	80	81.77	76.91	0.89	399.4	860.2	59.0	-	-	-	-	-	138	180	13.5	160	130	158	141.7	50	10	35	140	
RV	92 x 12	6	92	92.69	91.08	0.84	751.0	1791.0	169.8	-	-	-	-	-	160	220	17.5	190	210	234	163.7	63	10	45	162	
RV	92 x 18	6	92	93.01	90.58	0.86	817.0	1844.0	137.2	-	-	-	-	-	160	220	17.5	190	210	234	163.7	63	10	45	162	
RV	92 x 24	6	92	93.30	90.07	0.88	879.0	1850.0	118.0	-	-	-	-	-	160	220	17.5	190	210	234	163.7	63	10	45	162	
RV	100 x 15	5	99	100.04	97.61	0.85	904.0	2581.0	139.9	-	-	-	-	-	200	275	17.5	240	260	281	203	63	10	50	202	
➤RV	100 x 15	5	99	100.04	97.61	0.84	983.3	3533.0	155.5	-	-	-	-	-	200	245	17.5	224	-	304	-	-	-	-	-	
RV	100 x 20	5	99	100.35	97.11	0.87	829.0	2609.0	119.8	-	-	-	-	-	200	275	17.5	240	260	281	203	63	10	50	202	
➤RV	100 x 20	5	99	100.35	97.11	0.86	895.8	3545.0	133.5	-	-	-	-	-	200	245	17.5	224	-	304	-	-	-	-	-	
RV	100 x 25	5	99	100.65	96.60	0.88	858.0	2646.0	107.6	-	-	-	-	-	200	275	17.5	240	260	281	203	63	10	50	202	
RV	100 x 35	5	99	101.23	95.52	0.89	893.0	2598.0	90.8	-	-	-	-	-	200	275	17.5	240	260	281	203	63	10	50	202	
RV	100 x 18	6	100	101.02	98.60	0.86	751.0	1921.0	124.8	-	-	-	-	-	185	260	17.5	225	230	260	188	63	10	50	187	
RV	100 x 24	6	100	101.32	98.08	0.87	793.0	1891.0	106.0	-	-	-	-	-	185	260	17.5	225	230	260	188	63	10	50	187	
RV	100 x 30	6	100	101.60	97.55	0.88	814.0	1923.0	96.4	-	-	-	-	-	185	260	17.5	225	230	260	188	63	10	50	187	
RV	120 x 15	5	120	121.00	118.62	0.83	1135.0	3414.0	155.2	-	-	-	-	-	240	300	17.5	270	280	300	243	100	10	55	242	
➤RV	120 x 15	5	120	121.00	118.62	0.83	1172.0	4645.0	171.7	-	-	-	-	-	240	300	17.5	270	-	354	-	-	-	-	-	
RV	120 x 20	5	120	121.37	118.13	0.85	1042.0	3466.0	133.1	-	-	-	-	-	240	300	17.5	270	280	300	243	100	10	55	242	
➤RV	120 x 20	5	120	121.37	118.13	0.85	1071.0	4683.0	146.7	-	-	-	-	-	240	300	17.5	270	-	354	-	-	-	-	-	
RV	120 x 25	5	120	121.68	117.63	0.87	986.0	3535.0	119.1	-	-	-	-	-	240	300	17.5	270	280	300	243	100	10	55	242	
➤RV	120 x 25	5	120	121.68	117.63	0.87	1011.0	4764.0	132.0	-	-	-	-	-	240	300	17.5	270	-	354	-	-	-	-	-	
➤RV	120 x 30	5	120	121.98	117.11	0.87	945.0	4726.0	120.4	-	-	-	-	-	240	300	17.5	270	-	354	-	-	-	-	-	
RV	120 x 18	6	120	121.04	118.61	0.85	778.0	2534.0	138.6	-	-	-	-	-	220	260	17.5	240	230	260	223	100	10	50	222	
RV	120 x 24	6	120	121.30	118.10	0.87	786.0	2537.0	118.4	-	-	-	-	-	220	260	17.5	240	230	260	223	100	10	50	222	
RV	120 x 30	6	120	121.64	117.59	0.88	818.0	2577.0	106.5	-	-	-	-	-	220	260	17.5	240	230	260	223	100	10	50	222	
➤RV	135 x 15	5	135	136.06	133.62	0.82	1393.0	6033.0	194.3	-	-	-	-	-	280	345	20	315	-	393	-	-	-	-	-	
➤RV	135 x 20	5	135	136.38	133.14	0.84	1284.0	6145.0	167.0	-	-	-	-	-	280	345	20	315	-	393	-	-	-	-	-	
➤RV	135 x 25	5	135	136.70	132.65	0.86	1214.0	6264.0	149.8	-	-	-	-	-	280	345	20	315	-	393	-	-	-	-	-	
➤RV	135 x 30	5	135	137.00	132.14	0.86	1122.0	6154.0	134.9	-	-	-	-	-	280	345	20	315	-	393	-	-	-	-	-	
➤RV	150 x 15	5	150	151.06	148.63	0.81	1536.0	7285.0	210.5	-	-	-	-	-	320	385	20	355	-	437	-	-	-	-	-	
➤RV	150 x 20	5	150	151.39	148.15	0.83	1426.0	7481.0	181.9	-	-	-	-	-	320	385	20	355	-	437	-	-	-	-	-	
➤RV	150 x 25	5	150	151.71	147.66	0.85	1337.0	7571.0	161.7	-	-	-	-	-	320	385	20	355	-	437	-	-	-	-	-	
➤RV	150 x 30	5	150	152.02	147.10	0.86	1263.0	7601.0	147.3	-	-	-	-	-	320	385	20	355	-	437	-	-	-	-	-	

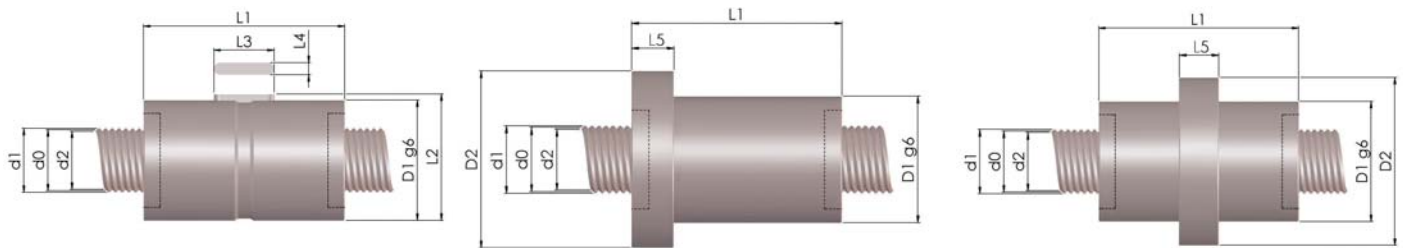
Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

Terms used in tables

P Lead	d1 External diameter	F_k Rigidity factor
D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	➔ High capacity definition

Type BRV - Rolled screws



Flange shapes
and Drilling's drawings



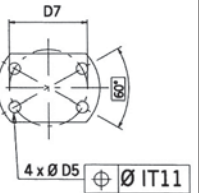
Shape
A



Shape
B



Drilling's
drawing
1



Type	D x P	N					Single nut, with backlash and double nut			Split nut, preloaded, without backlash			Split nuts, preloaded, preloading torque							Without wipers		With wipers							
			[mm]	[mm]	[mm]	Efficiency	[kN]	[kN]	[N ^{2/3} /μm]	[kN]	[kN]	[N ^{2/3} /μm]	[N]	[Ncm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
BRV	8 x 5	4	8	8.30	7.45	0.89	4.1	7.5	14.9	2.6	3.7	9.4	170	5		21	41	4.8	31	31	41	22.3	10	3	13	24			
BRV	12 x 4	5	12	12.25	11.65	0.89	7.0	12.5	23.6	4.4	6.2	14.8	310	8		26	46	4.8	36	31	41	27.3	10	3	13	28			
BRV	12 x 5	5	12	12.32	11.56	0.89	7.3	12.7	21.5	4.6	6.3	13.5	260	8		26	46	4.8	36	31	41	27.3	10	3	13	28			
BRV	15 x 4	5	15	15.25	15.65	0.88	11.2	19.3	28.2	7.0	9.6	17.7	370	10		34	56	5.8	45	35	51	35.7	14	4	18	36			
BRV	15 x 5	5	15	15.32	15.56	0.89	10.5	19.5	25.4	6.6	9.7	16	310	10		34	56	5.8	45	35	51	35.7	14	4	18	36			
BRV	20 x 5	5	19.5	19.83	19.02	0.88	25.9	44.8	38.7	16.3	22.3	24.4	590	20		42	64	5.8	53	55	65	43.7	20	4	20	44			
BRV	20 x 10	5	19.5	20.04	18.62	0.89	20.0	43.3	34.7	12.6	21.7	21.9	340	20		42	64	5.8	53	55	65	43.7	20	4	20	44			
BRV	23 x 4	5	22.5	22.79	22.15	0.86	32.3	51.5	45.1	20.3	25.7	28.4	1000	30		45	67	7	56	55	65	46.7	20	4	20	47			
BRV	23 x 5	5	22.5	22.87	22.06	0.87	29.9	51.5	39.8	18.8	25.7	25.1	860	30		45	67	7	56	55	65	46.7	20	4	20	47			
BRV	23 x 10	5	22.5	23.12	21.62	0.89	23.5	50.7	28.0	14.7	25.3	17.7	500	30		45	67	7	56	55	65	46.7	20	4	20	47			
BRV	27 x 5	5	27	27.37	26.56	0.86	49.2	81.5	49.9	30.9	40.7	31.5	1080	40		53	83	7	68	65	79	55.2	20	5	22	55			
BRV	27 x 10	5	27	27.62	26.00	0.89	67.0	82.2	35.1	42.2	41.0	22.1	640	40		53	83	7	68	65	79	55.2	20	5	22	55			
BRV	30 x 10	5	30	30.63	29.01	0.89	61.7	105.4	39.1	38.8	52.7	24.6	790	50		62	92	9	77	71	85	64.7	20	6	22	64			
BRV	39 x 10	5	39	39.74	38.12	0.88	87.1	173.2	47.7	54.8	86.5	30.1	1190	80		80	116	11	98	90	100	82.7	28	6	25	82			
BRV	39 x 25	5	39	40.50	36.80	0.90	99.6	176.2	30.1	62.7	88.1	19.0	550	80		80	116	11	98	90	100	82.7	28	6	25	82			
BRV	44 x 30	6	44	45.28	41.23	0.90	96.1	166.2	38.9	60.5	83.0	24.5	590	100		80	118	11	100	80	90	82.7	28	6	25	84			

Maximum backlash of single nuts: 0.03mm (can be less on request).

If possible, provide a lubrication hole in the nut (contact Rollvis for feasibility and position).

Terms used in tables

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D Reference diameter	d2 Thread bottom diameter	F_v Preloading force
N Number of starts	C Dynamic load capacity	M_v Load-free torque due to preloading
d0 Nominal diameter	Co Static load capacity	