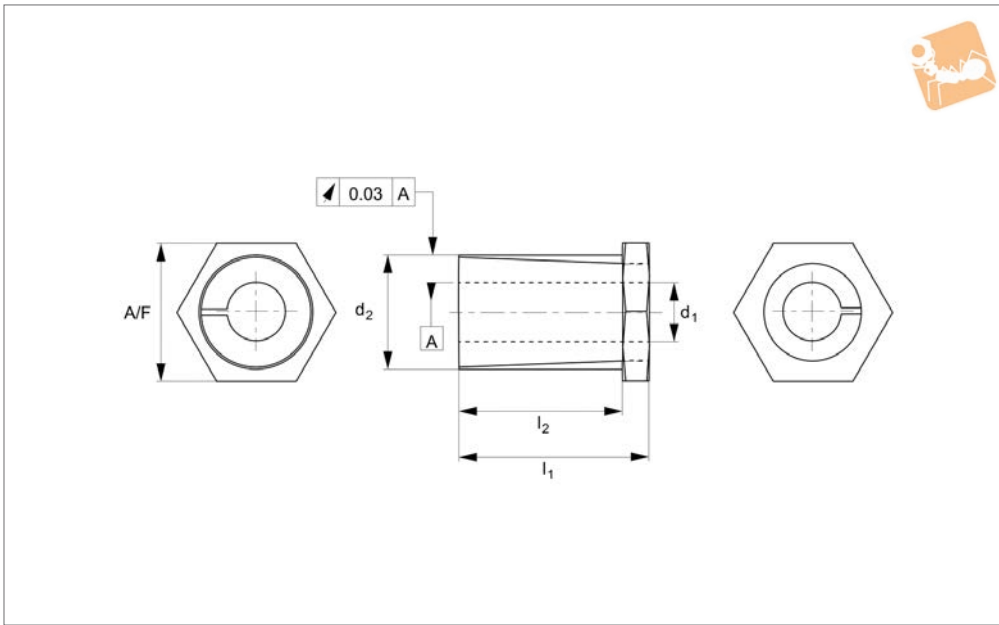


R3220

RIGID COUPLINGS



Material

Stainless steel (A2, AISI 303).

Technical Notes

Used to easily and effectively achieve shaft/hub joints. Simple axial and radial fixing.

For applications such as fixing sprockets, gears, pulleys, cams, levers on to shafts.

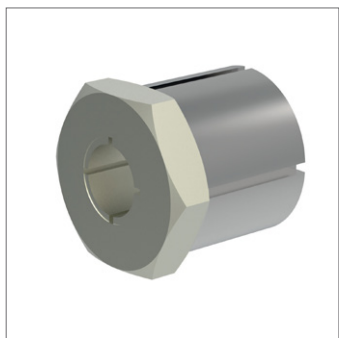
Tips

Clean shaft and hub free from oil and dirt. Rotate the nut until inner part protrudes approximately 3mm over the outer.

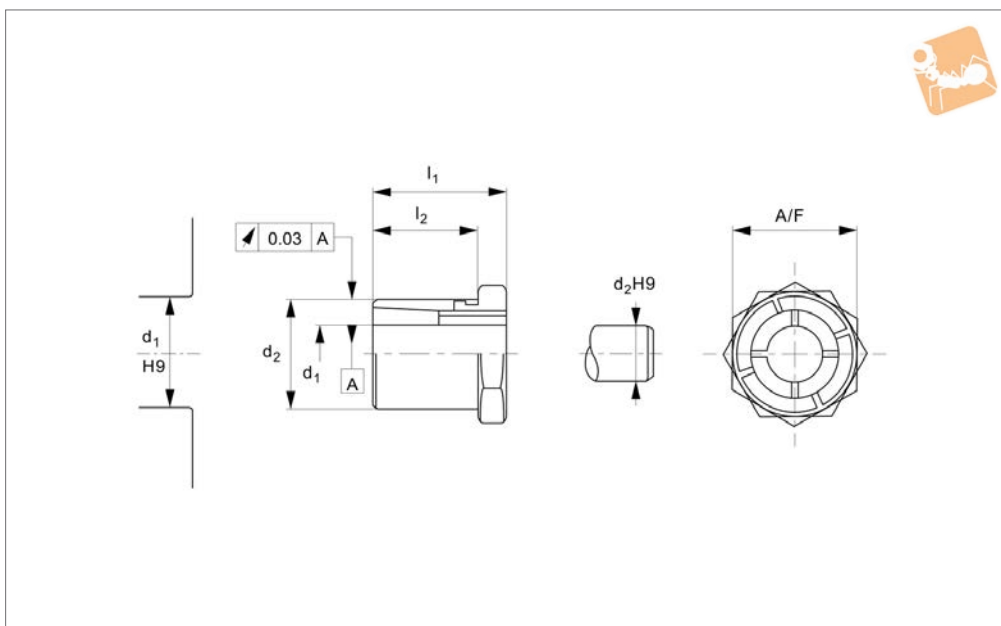
Install taper bush onto shaft, slightly tighten nut when located in desired position.

Compensate the axial off-set produced with a soft-faced mallet, and tighten.

Order No.	d ₁ tol. H9	d ₂ tol. h9	l ₁	l ₂	A/F	Thread	Torque to Nm	Torque Nm max.
R3220.040	4	8	15	12.5	8	M6 x 0,5	4	3
R3220.050	5	10	15	12.5	10	M8 x 0,5	5	4
R3220.060	6	10	15	12.5	10	M8 x 0,5	8	7
R3220.0635	6.35	10	15	12.5	10	M8 x 0,5	7	7
R3220.070	7	12	15	12.0	12	M10 x 0,75	9	8
R3220.080	8	14	22	19.0	17	M12 x 1,0	15	14
R3220.090	9	14	22	19.0	17	M12 x 1,0	15	14
R3220.0952	9.52	14	22	19.0	17	M12 x 1,0	14	14
R3220.100	10	17	22	18.5	19	M15 x 1,0	19	18
R3220.110	11	17	22	18.5	19	M15 x 1,0	19	18
R3220.120	12	17	22	18.5	19	M15 x 1,0	19	18
R3220.1270	12.7	17	22	18.5	19	M15 x 1,0	18	18
R3220.140	14	20	28	23.0	22	M17 x 1,0	25	24
R3220.150	15	20	28	23.0	22	M17 x 1,0	25	24
R3220.1588	15.88	23	28	23.0	27	M20 x 1,0	26	26
R3220.160	16	23	28	23.0	27	M20 x 1,0	27	26
R3220.170	17	23	28	23.0	27	M20 x 1,0	27	26
R3220.190	19	25	28	23.0	27	M22 x 1,0	30	29
R3220.200	20	28	28	23.0	30	M22 x 1,0	32	31



R3221



Material

Body, galvanized steel. Internal part and nut from nickel plated steel.

Technical Notes

Used to easily and effectively achieve shaft/hub joints. Simple axial and radial fixing.

For applications such as fixing sprockets, gears, pulleys, cams, levers on to shafts.

See technical pages for installation instructions.

Parallelism is 0,03 mm.

Tips

F_a max. kN is the transferable thrust load.

P_s max. N/mm² is the surface pressure on the shaft.

P_h max. N/mm² is the surface pressure on the bore.

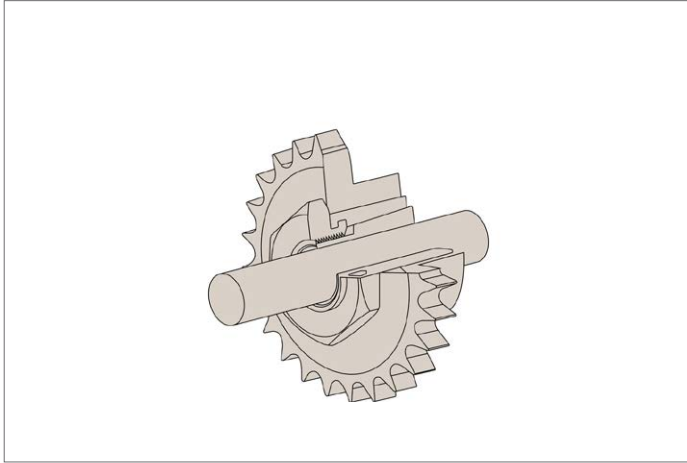
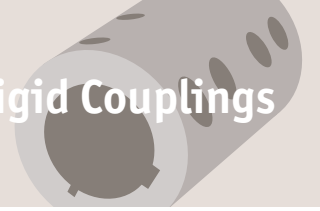
Order No.	d ₁ tol. H9	d ₂ tol. h9	l ₁	l ₂	A/F	Torque Nm	Torque Nm max.	F _a kN	P _s N/mm ² max.	P _h N/mm ² max.	Weight g
R3221.050	5	14	19	15	14	9.9	10.1	4.0	264	96	20
R3221.060	6	14	19	15	14	9.9	12.1	4.0	220	96	19
R3221.080	8	16	22	17	16	16.9	23.4	5.8	179	91	26
R3221.090	9	20	24	19	22	34.9	43.7	9.7	245	115	47
R3221.100	10	20	24	19	22	34.9	48.6	9.7	221	115	46
R3221.110	11	22	24	19	22	43.8	59.9	10.9	225	117	51
R3221.120	12	22	24	19	22	43.8	65.3	10.9	206	117	49
R3221.140	14	26	28	22	27	65.0	93.0	13.3	178	99	83
R3221.150	15	26	28	22	27	65.0	99.0	13.3	166	99	78
R3221.160	16	26	28	22	27	65.0	106.0	13.3	156	99	73
R3221.180	18	35	36	27	36	161.0	223.0	24.8	224	125	201
R3221.190	19	35	36	27	36	161.0	235.0	24.8	212	125	189
R3221.200	20	35	36	27	36	161.0	248.0	24.8	201	125	186
R3221.220	22	42	41	30	46	250.0	349.0	31.8	197	110	346
R3221.240	24	42	41	30	46	250.0	381.0	31.8	180	110	326
R3221.250	25	42	41	30	46	250.0	397.0	31.8	173	110	315
R3221.280	28	47	44	33	50	355.0	565.0	40.4	174	110	403
R3221.300	30	47	44	33	50	355.0	605.0	40.4	162	110	378
R3221.320	32	55	51	38	55	490.0	764.0	47.8	166	102	632
R3221.350	35	55	51	38	55	490.0	836.0	47.8	151	102	571
R3221.380	38	62	58	43	65	720.0	1179.0	62.1	159	111	897
R3221.400	40	62	58	43	65	720.0	1241.0	62.1	151	111	842



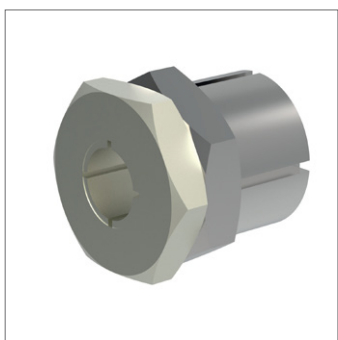
Steel Taper Bushes

no lock nut

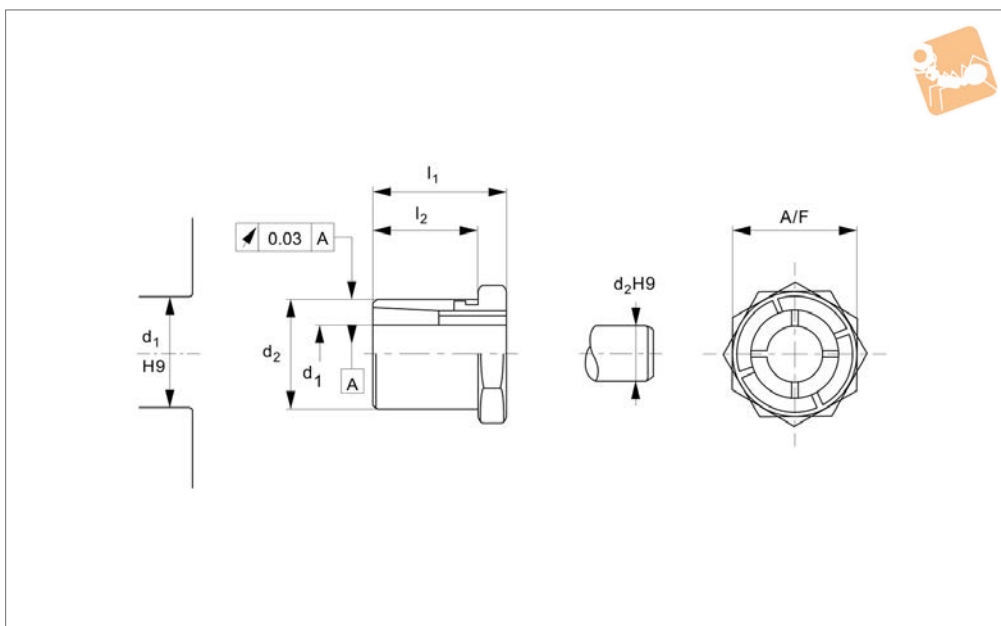
Rigid Couplings



RIGID COUPLINGS



R3222



Material

Body, galvanized steel. Internal part and nut from nickel plated steel.

Technical Notes

Used to easily and effectively achieve shaft/hub joints, simple axial and radial fixing.

For applications such as fixing sprockets,

gears, pulleys, cams, levers on to shafts.

See technical pages for installation instructions.

instructions.

The lock nut at the outer part facilitates locking of the shaft-hub joint if freely rotating shafts are involved.

Tips

F_a max. kN is the transferable thrust load.

P_s max. N/mm² is the surface pressure on the shaft.

P_h max. N/mm² is the surface pressure on the bore.

Parallelism is 0,03 mm.

Order No.	d ₁ tol. H9	d ₂ tol. h9	l ₁	l ₂	l ₃	A/F	Torque Nm	Torque Nm max.	F _a kN	P _s N/mm ² max.	P _h N/mm ² max.	Weight g
R3222.050	5	12	19	15	9	14	9.9	10.1	4.0	264	119	18
R3222.060	6	12	19	15	9	14	9.9	12.1	4.0	220	119	17
R3222.080	8	14	22	17	11	16	16.9	23.4	5.8	179	121	23
R3222.090	9	18	24	19	12	22	34.9	43.7	9.7	245	127	47
R3222.100	10	18	24	19	12	22	34.9	48.6	9.7	221	127	46
R3222.110	11	20	24	19	12	22	43.8	59.9	10.9	225	128	47
R3222.120	12	20	24	19	12	22	43.8	65.3	10.9	206	128	45
R3222.140	14	24	28	22	15	27	65.0	93.0	13.3	178	107	78
R3222.150	15	24	28	22	15	27	65.0	99.0	13.3	166	107	75
R3222.160	16	24	28	22	15	27	65.0	106.0	13.3	156	107	70
R3222.180	18	30	36	27	17	36	161.0	223.0	24.8	224	145	179
R3222.190	19	30	36	27	17	36	161.0	235.0	24.8	212	145	169
R3222.200	20	30	36	27	17	36	161.0	248.0	24.8	201	145	213
R3222.220	22	38	41	30	20	46	250.0	349.0	31.8	197	122	341
R3222.240	24	38	41	30	20	46	250.0	381.0	31.8	180	122	320
R3222.250	25	38	41	30	20	46	250.0	397.0	31.8	173	122	310
R3222.280	28	42	44	33	23	50	355.0	565.0	40.4	174	123	370
R3222.300	30	42	44	33	23	50	355.0	605.0	40.4	162	123	348
R3222.320	32	50	51	38	28	55	490.0	764.0	47.8	166	112	555
R3222.350	35	50	51	38	28	55	490.0	836.0	47.8	151	112	501