

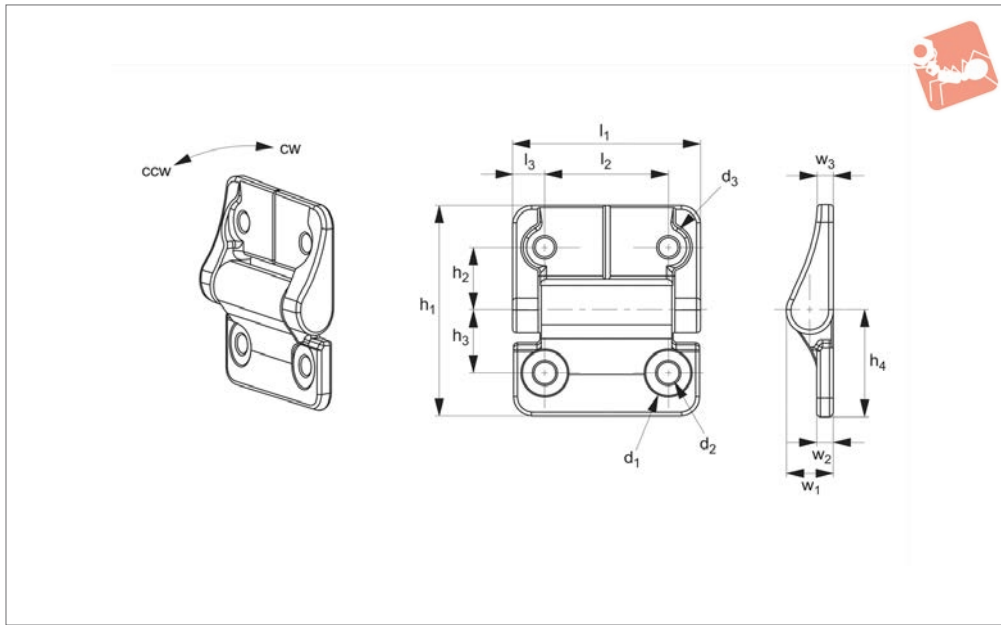


# Friction Hinges - Natural & Black

symmetric - asymmetric torque



## Hinges



### S3854

HINGES

#### Material

Steel and zinc with natural or black oxide finish.

#### Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring

seals against environmental contamination.

#### Important Notes

Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer diffe-

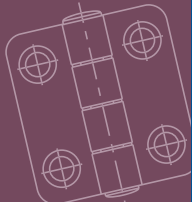
rent torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Finish	Torque type	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>
S3854.AC0000	0.0	0.0	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0009	0.9	0.9	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0018	1.8	1.8	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0023	2.3	2.3	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0034	3.4	3.4	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0223	2.3	1.4	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0234	3.4	2.0	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0327	4.5	2.7	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0323	1.4	2.3	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0334	2.0	3.4	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0345	2.7	4.5	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1000	0.0	0.0	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1009	0.9	0.9	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1018	1.8	1.8	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1023	2.3	2.3	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1034	3.4	3.4	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1223	2.3	1.4	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1234	3.4	2.0	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1327	4.5	2.7	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1323	1.4	2.3	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1334	2.0	3.4	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1345	2.7	4.5	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10

Order No.	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>
S3854.AC0000	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0009	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0018	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0023	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0034	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0223	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0234	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81



Order No.	$h_1$	$h_2$	$h_3$	$h_4$	$l_1$	$l_2$	$l_3$	$w_1$	$w_2$	$w_3$
S3854.AC0327	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0323	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0334	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0345	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1000	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1009	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1018	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1023	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1034	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1223	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1234	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1327	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1323	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1334	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1345	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
























Table of constant torque ranges				Torque Nm														
Part no.	Torque type	Shaft Rotation	Torque Nm	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	
	S3810	Symmetric	360°	0,05 to 3,80	[Bar chart showing torque range from 0.05 to 3.80 Nm]													
	S3820	Symmetric/Asymmetric	360°	0,2 to 1,1	[Bar chart showing torque range from 0.2 to 1.1 Nm]													
	S3824	Symmetric/Asymmetric	360°	0,2 to 1,1	[Bar chart showing torque range from 0.2 to 1.1 Nm]													
	S3830	Symmetric/Asymmetric	270°	0,9 to 3,4	[Bar chart showing torque range from 0.9 to 3.4 Nm]													
	S3834	Symmetric/Asymmetric	270°	0,9 to 3,4	[Bar chart showing torque range from 0.9 to 3.4 Nm]													
	S3840	Symmetric/Asymmetric	270°	0,9 to 3,4	[Bar chart showing torque range from 0.9 to 3.4 Nm]													
	S3844	Symmetric/Asymmetric	270°	0,9 to 4,5	[Bar chart showing torque range from 0.9 to 4.5 Nm]													
	S3850	Symmetric/Asymmetric	270°	0,9 to 3,4	[Bar chart showing torque range from 0.9 to 3.4 Nm]													
	S3852	Symmetric/Asymmetric	270°	0,9 to 3,4	[Bar chart showing torque range from 0.9 to 3.4 Nm]													
	S3854	Symmetric/Asymmetric	270°	0,9 to 4,5	[Bar chart showing torque range from 0.9 to 4.5 Nm]													
	S3860	Symmetric	270°	3,5 to 7,0	[Bar chart showing torque range from 3.5 to 7.0 Nm]													
	S3870	Symmetric	90° and 360°	2,5 to 5,0	[Bar chart showing torque range from 2.5 to 5.0 Nm]													

Table of constant torque ranges			Torque Kgf.cm														
Part no.	Torque Kgf.cm		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
	S4000	5 - 57.5	[Bar chart showing torque range from 5 to 57.5 Kgf.cm]														
	S4002	8	[Bar chart showing torque range from 8 to 8 Kgf.cm]														
	S4006	3.5 - 15.3	[Bar chart showing torque range from 3.5 to 15.3 Kgf.cm]														
	S4010	15 - 30	[Bar chart showing torque range from 15 to 30 Kgf.cm]														
	S4016	25 - 70	[Bar chart showing torque range from 25 to 70 Kgf.cm]														
	S4020	20 - 45.8	[Bar chart showing torque range from 20 to 45.8 Kgf.cm]														
	S4022	20 - 45.8	[Bar chart showing torque range from 20 to 45.8 Kgf.cm]														
	S4030	Tilting: 30.5 Swivelling: 15	[Bar chart showing torque range for tilting and swivelling]														
	S4032	Tilting: 71.5 Swivelling: 30.5	[Bar chart showing torque range for tilting and swivelling]														

### Constant Torque Hinges S4000-S4032

#### Operating Principle

Wixroyd Constant Torque Hinges rely only on mechanical friction to achieve a stable torque. A range of different friction hinges are available to best suit your application.

HINGES

ov-W53810-A-T-W53870-A-T-torque-positioning-hinges-rnh - Updated - 01-11-2022