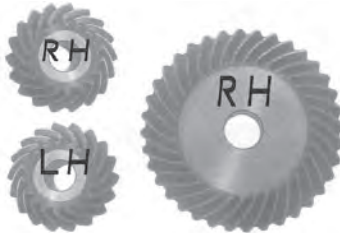


Pitch DP	No. Teeth	Outside dia. A	Pitch dia. B	Bore dia. C	Boss dia. D	Overall length E	Face width F	G	J	K	X	Catalogue No.
10	30	3.127	3.000	0.750	2.343	1.344	0.625	—	0.658	—	2.375	SB10-1-S
12	30	2.610	2.500	0.688	1.875	1.167	0.563	M6	0.563	0.281	2.000	SB12-1-S
14	28	2.090	2.000	0.562	1.562	0.828	0.437	M4	0.347	0.200	1.500	SB14-1-S
16	24	1.581	1.500	0.438	1.170	0.674	0.312	M4	0.272	0.156	1.187	SB16-1-S
24	24	1.052	1.000	0.312	0.780	0.537	0.218	M3	0.265	0.156	0.875	SB24-1-S
32	17	0.569	0.531	0.188	0.390	0.329	0.125	M3	0.166	0.094	0.500	SB32-1-S
48	48	1.023	1.000	0.250	0.790	0.465	0.187	M3	0.286	0.156	0.827	SB48-1-S



Material

Steel BS970 Pt1 1991 080M15 (EN32)
or BS970 Pt.3 1991 230M07 (EN1A)

All dimensions in inches.
Pressure angle 20°.

Helix angle 35° – pinion left hand
– gear right hand

These bevel gears are cut to the Gleason System.
Bore tolerances to BS. 1916: 1953, Pt. 1, H8.

General tolerance unless otherwise stated $\pm 0.010'$.

Angular accuracy between shafts $\pm 0'-5'$.

Shaft axes should intersect within $\pm 0.001''$.

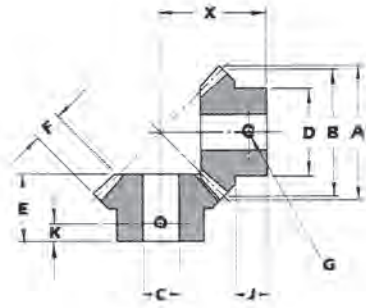
Mounting distance tolerance
(Dimn. \times) $\pm \frac{NPL}{1000}$

These gears are not hardened.
can only be run at a 90° shaft angle
extra pinion or gear available

DAVALL GEARS Bevel Gears

Spiral – 1:1 ratio

Brass, 24 DP to 48 DP



Pitch DP	No. Teeth	Outside dia. A	Pitch dia. B	Bore dia. C	Boss dia. D	Overall length E	Face width F	G	J	K	X	Catalogue No.
24	24	1.052	1.000	0.312	0.780	0.537	0.218	M3	0.265	0.156	0.875	SB24-1-B
32	17	0.569	0.531	0.188	0.390	0.329	0.125	M3	0.166	0.094	0.500	SB32-1-B
48	48	1.023	1.000	0.250	0.790	0.465	0.187	M3	0.286	0.156	0.827	SB48-1-B

Material

Brass BS2874:1986 CZ121

All dimensions in-inches.

Pressure angle 20°.

Helix angle 35° – pinion left hand
– gear right hand

These bevel gears are cut to the Gleason System.

Bore tolerances to BS. 1916: 1953, Pt. 1, H8.

General tolerance unless otherwise stated $\pm 0.010''$.

Angular accuracy between shafts $\pm 0^{\circ}5'$.

Shaft axes should intersect within $\pm 0.001''$.

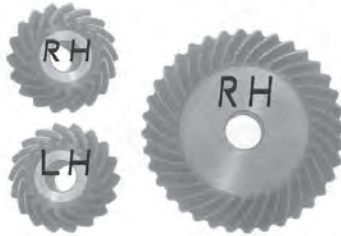
Mounting distance tolerance

(Dimn. \times) $\begin{matrix} +N1L \\ -0.002 \end{matrix}$

These gears are NOT hardened.

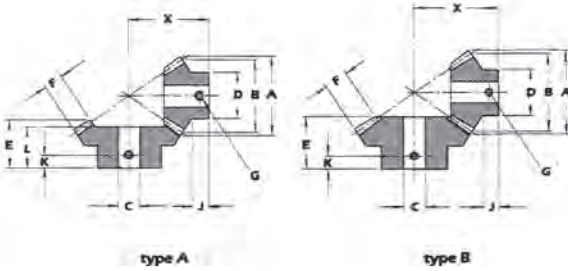
can only be run at a 90° shaft angle

extra pinion or gear available

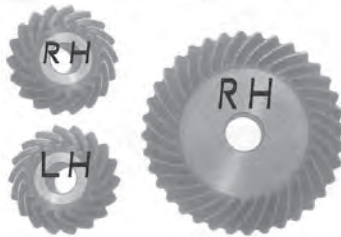


Spiral – 2:1 ratio

Steel, 10 DP to 48 DP



Pitch DP	No. Teeth	Type	Outside	Pitch	Bore	Boss	Overall	Face	Catalogue					
			dia.	dia.	dia.	dia.	length	width	No.					
			A	B	C	D	E	F	G	J	K	L	X	
10	16	A	1.817	1.600	0.625	1.440	1.177	0.563	—	0.572	—	—	2.250	SB10-2-S
	32		3.258	3.200	0.812	2.030	1.464	0.563	—	0.891	—	1.393	2.000	
16	16	A	1.136	1.000	0.312	0.900	0.849	0.375	M5	0.471	0.250	—	1.500	SB16-2-S
	32		2.036	2.000	0.562	1.250	0.675	0.375	M5	0.306	0.156	0.632	1.000	
24	16	B	0.756	0.667	0.250	0.600	0.564	0.250	M3	0.317	0.156	—	1.000	SB24-2-S
	32		1.357	1.333	0.312	0.780	0.529	0.250	M4	0.286	0.156	—	0.750	
48	40	B	0.870	0.833	0.250	0.780	0.361	0.200	M3	0.163	0.080	—	1.009	SB48-2-S
	80		1.675	1.667	0.250	0.937	0.461	0.200	M5	0.312	0.250	—	0.783	



Material

Steel BS970 Pt1 1991 080M15 (EN32)
or BS970 Pt.3 1991 230M07 (EN1A)

All dimensions in inches.

Pressure angle 20°.

Helix angle 35° – pinion left hand
– gear right hand

These bevel gears are cut to the Gleason System.

Bore tolerances to BS. 1916: 1953, Pt. 1, H8.

General tolerance unless otherwise stated $\pm 0.010''$.

Angular accuracy between shafts $\pm 0^{\circ}-5'$.

Shaft axes should intersect within $\pm 0.001''$.

Mounting distance tolerance

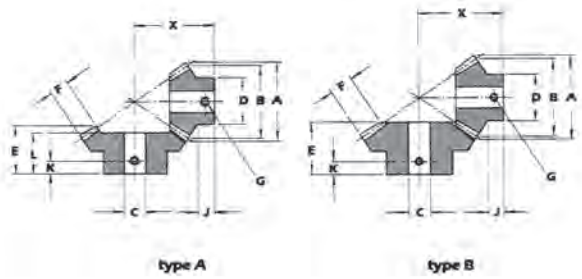
(Dimn. X) $\pm \frac{NIL}{002}$.

These gears are not hardened.

Can only be run at a 90° shaft angle
extra pinion or gear available

Spiral – 3:1 ratio

Steel, 10 DP to 48 DP



GEARS

Pitch DP	No. Teeth	Type	Outside dia.	Pitch dia.	Bore dia.	Boss dia.	Overall length	Face width						Catalogue No.
			A	B	C	D	E	F	G	J	K	L	X	
10	16	A	1.808	1.600	0.688	1.450	1.269	0.813	—	0.450	—	—	2.875	SB10-3-S
	48		4.827	4.800	1.000	2.500	1.482	0.813	—	0.881	—	1.370	2.000	
16	16	A	1.143	1.000	0.438	0.910	0.862	0.500	M4	0.361	0.218	—	1.875	SB16-3-S
	48		3.021	3.000	0.625	1.562	0.918	0.500	M6	0.553	0.281	0.861	1.250	
24	16	B	0.763	0.667	0.250	0.600	0.650	0.350	M3	0.301	0.156	—	1.312	SB24-3-S
	48		2.014	2.000	0.406	1.015	0.653	0.350	M5	0.404	0.218	—	0.875	
48	30	B	0.666	0.625	0.250	0.590	0.463	0.200	M3	0.262	0.156	—	1.205	SB48-3-S
	90		1.880	1.875	0.250	0.937	0.436	0.200	M5	0.309	0.156	—	0.680	

Material

Steel BS970 Pt1 1991 080M15 (EN32)
or BS970 Pt.3 1991 230M07 (EN1A)

All dimensions in inches.

Pressure angle 20°.

Helix angle 35° – pinion left hand
– gear right hand

These bevel gears are cut to the Gleason System.

Bore tolerances to BS. 1916: 1953, Pt. 1, H8.

General tolerance unless otherwise stated $\pm 0.010''$.

Angular accuracy between shafts $\pm 0^{\circ}5'$.

Shaft axes should intersect within $\pm 0.001''$.

Mounting distance tolerance

(Dimn. X) $\pm \frac{N.A.L.}{0.02}$

These gears are not hardened.

Can only be run at a 90° shaft angle
extra pinion or gear available

