

## Bearings/Wear Rings – Grooved

### Technical details

Metric

Inch

#### Operating conditions

Maximum Speed	5.0 m/sec
Temperature Range	-40°C + 120°C

15.0 ft/sec
-40°F + 250°F

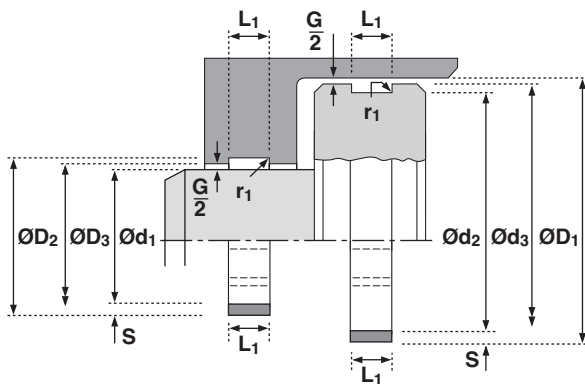
#### Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic Sealing Face – Rod $\varnothing d_1$	0.4	4 max	16	18
Static Sealing Face – Rod $\varnothing D_2 L_1$	3.2 max	16 max	125 max	140 max
Dynamic Sealing Face – Piston $\varnothing d_1$	0.4	4 max	16	18
Static Sealing Face – Piston $\varnothing d_2 L_1$	3.2 max	16 max	125 max	140 max

#### Housing Details & Tolerances

$L_1$ in	+0.015 +0.010		
$r_1$ in	0.016 max		
Rod $\varnothing d_1$ in	f9		
$\varnothing D_2$ in	$\varnothing d_1 + 2S$	+0.004 -0.000	
$\varnothing D_3$ in	$\varnothing d_1 + G$		
Piston $\varnothing D_1$ in	H11		
$\varnothing d_2$ in	$\varnothing D_1 - 2S$	+0.000 -0.004	
$\varnothing d_3$ in	$\varnothing D_1 - G$		
1/8 nominal cross sections - in	$S = 0.126$	G max 0.080	G min 0.031
3/32 nominal cross sections - in	$S = 0.093$	G max 0.060	G min 0.031
1/16 nominal cross sections - in	$S = 0.062$	G max 0.040	G min 0.031

# 533G



### Design

The Hallite 533G bearing is a version of the Hallite 533, which has axial grooves to allow fluid bypass. This bearing is most often used in hydraulic ram application where such a feature is required. Like the standard 533 bearing the 533G is compatible with hydraulic and lubricating oil. It is not suitable for use in applications where water based fluids are used, nor is it suitable in applications where significant water is present, because of the swell of the nylon.

#### Split Type

B indicates butt cut

S indicates scarf cut

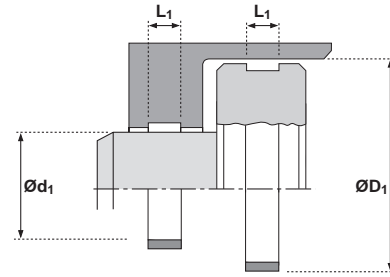
NB Some sizes are rod specific only

**Note:** Metric sizes are also available upon request. For further information about these and any other sizes that you are looking for, please contact your local Hallite sales office.

### Features

- Moulded to size
- Easy installation
- Robust
- Long life
- Economical

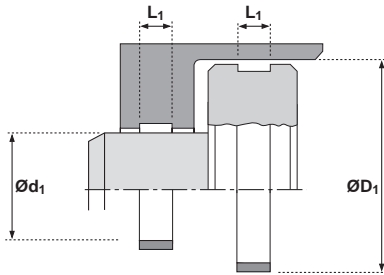
# 533 G



ØD <sub>1</sub> in	Ød <sub>1</sub> in	L <sub>1</sub>	S	ØD <sub>1</sub> mm	Ød <sub>1</sub> mm	L <sub>1</sub> mm	Rod Specific	Split Type	PART No
2.500	2.250	0.500	0.125	63.5	57.2	12.7		B	F30046
3.250	3.000	0.750	0.125	82.6	76.2	19.1		B	F30073
3.312	3.126	0.750	0.093	84.1	79.4	19.1		B	F30355
3.500	3.250	0.500	0.125	88.9	82.6	12.7		B	F30084
3.500	3.314	0.500	0.093	88.9	84.2	12.7		B	F30226
3.500	3.250	0.750	0.125	88.9	82.6	19.1		B	F30340
4.250	4.000	0.750	0.125	108.0	101.6	19.1		B	F30111
4.500	4.250	0.500	0.125	114.3	108.0	12.7		B	F30116
4.500	4.250	0.750	0.125	114.3	108.0	19.1		B	F30227
4.600	4.350	0.500	0.125	116.8	110.5	12.7		B	F30359
5.250	5.000	0.750	0.125	133.4	127.0	19.1		B	F30134
5.500	5.250	0.500	0.125	139.7	133.4	12.7		B	F30137
5.500	5.250	0.750	0.125	139.7	133.4	19.1		B	F30228
5.540	5.290	0.500	0.125	140.7	134.4	12.7		B	F30360
6.000	5.750	0.625	0.125	152.4	146.1	15.9		B	F30148
6.000	5.750	0.750	0.125	152.4	146.1	19.1		B	F30345
6.250	6.000	0.750	0.125	158.8	152.4	19.1		B	F30152
6.500	6.250	0.500	0.125	165.1	158.8	12.7		B	F30361
6.500	6.250	0.500	0.125	165.1	158.8	12.7		B	F30155
6.500	6.250	0.750	0.125	165.1	158.8	19.1		B	F30229

## Bearings inch

# 533G



$\text{ØD}_1$ in	$\text{Ød}_1$ in	$L_1$	S	$\text{ØD}_1$ mm	$\text{Ød}_1$ mm	$L_1$ mm	Rod Specific	Split Type	PART No
7.250	7.000	0.750	0.125	184.2	177.8	19.1		B	F30161
7.500	7.250	0.500	0.125	190.5	184.2	12.7		B	F30163
7.500	7.250	0.750	0.125	190.5	184.2	19.1		B	F30341
8.413	8.163	0.750	0.125	213.7	207.3	19.1		B	F30357
8.500	8.250	0.750	0.125	215.9	209.6	19.1		B	F30342
9.878	9.628	0.750	0.125	250.9	244.6	19.1		B	F30362