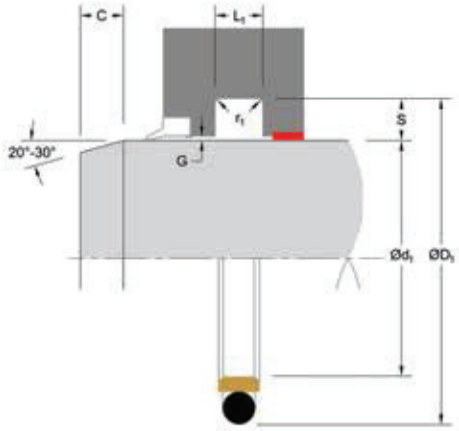


RDA

ROD SEAL

Double-Acting

TECHNICAL DETAILS

The Hallite RDA is a double-acting, o-ring energized, low-friction rod seal that performs well in both high-and-low pressure systems. High-performance Armorlene® materials, like HLX, provide outstanding wear and extrusion-resistance properties as well as large range of temperature and media compatibility. The standard RDA seal face includes pressure notches, which makes the seal very responsive to changes in pressure or direction of travel.

Hallite's RDA seal has been used successfully for years in machine tool, injection molding, and many other industrial applications in both single- and double-acting systems. This design also fits standard ISO 7425-2 grooves and is offered in a wide range of metric and inch options. The Hallite RDA, with proper guidance (see Hallite Bearings section), is an excellent long-lasting sealing solution.

This seal is available in a variety of Hallite's high performance Armorlene® and Hythane® materials to suit a wide range of demanding applications.

FEATURES

- Compact design to save metal spacing
- Low breakout friction and elimination of stick-slip action
- Excellent in high-speed applications
- High service temperature, long wear, and high extrusion resistance

Part Number Structure

RDAMR00700NHLX _

RDA	M	R	00700	N	HLX	___
PROFILE DESIGNATION	**UNIT OF MEASUREMENT** **M** = Metric **E** = Inch	**APPLICATION** Refer to ***Installation Recommendations*** and use designator for desired application	**ROD DIAMETER** **Metric** = mm X 10 **Inch** = inches X 1000	**ENERGIZER MATERIAL** Refer to ***Energizer Table*** for desired energizer material	**PTFE MATERIAL** Refer to ***Material Table*** for desired PTFE (face) material	**SPECIAL FEATURE** **Blank** = Std profile (with notches) **X** = No Notches *Notches not offered with groove widths (L_1) of 2.2mm (0.087in) or 3.2mm (0.126in)*

OPERATING CONDITIONS

	metric	inch
Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
Temperature Range*	-45 to 200°C	-49 to 392°F
Maximum Dynamic Pressure**	600 bar	8700 psi

**Dependent upon energizer used (NBR, FKM, etc.). **For pressures above 400 bar (5800 psi), contact Hallite Engineering.*

NOTE

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

SURFACE FINISH RECOMMENDATIONS

	metric			inch			RMR*
SURFACE ROUGHNESS	**µMRA**	**µMRZ**	**µMRT**	**µINRA**	**µINRZ**	**µINRT**	
Dynamic Sealing Face Ød$_1$	0.05 - 0.2	1.3 max	2 max	2 - 8	52 max	78 max	60% - 90%
Static Sealing Face ØD$_1$	1.6 max	7 max	10 max	63 max	276 max	394 max	
Static Housing Faces L$_1$	3.2 max	10 max	16 max	125 max	394 max	630 max	

**RMR is measured at a depth of 25% of the Rz value based upon a reference level (zero line) at 5% material/bearing area.*

ENERGIZER TABLE

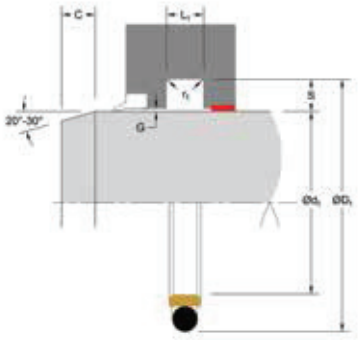
ENERGIZER MATERIAL (SHORE A)	ENERGIZER TYPE	ENERGIZER DESIGNATION	ENERGIZER OPERATING TEMPERATURE°C	ENERGIZER OPERATING TEMPERATURE°F
NBR - 70A	O-Ring	N	-30 to 100°C	-22 to 212°F
NBR - 70A Low temp.	O-Ring	L	-45 to 80°C	-49 to 176°F
FKM - 75A	O-Ring	F	-10 to 200°C	14 to 392°F
EPDM - 70A	O-Ring	E	-45 to 145°C	-49 to 293°F
HNBR - 70A	O-Ring	H	-25 to 150°C	-13 to 302°F
NBR - 90A	O-Ring	Q	-30 to 100°C	-22 to 212°F
HNBR - 90A	O-Ring	U	-25 to 150°C	-13 to 302°F
No Energizer*	None	X	-	-

**Seal ratings are based upon capabilities of its matched material components. Hallite cannot rate seal performance when the seal is mixed with other manufacturers' energizers/components.*

MATERIALS

MATERIAL FEATURES AND APPLICATIONS	FILLER	MATERIAL DESIGNATOR	COLOR	TEMPERATURE RANGE°C	TEMPERATURE RANGE°F	MAXIMUM DYNAMIC PRESSURE - BAR	MAXIMUM DYNAMIC PRESSURE - PSI
ARMORLENE® HLX • Standard material for hydraulic applications • High compressive strength • Excellent extrusion resistance • Extended wear resistance	Special Bronze Compound	HLX	Gold	-73 to 288°C	-100 to 550°F	500 bar	7250 psi
ARMORLENE® HLA • Excellent in all hydraulic fluids • Excellent wear resistance • Excellent low-friction properties • Good extrusion resistance	Special Mineral Compound	HLA	Gray	-73 to 260°C	-100 to 500°F	500 bar	7250 psi
ARMORLENE® 702 • Excellent in lubricating and non-lubricating hydraulic fluids • Good low-friction properties • Excellent extrusion resistance • Good chemical resistance	Glass Molybdenum Disulfide	702	Gray	-73 to 260°C	-100 to 500°F	400 bar	5800 psi
ARMORLENE® 706 • Excellent in lubricating and non-lubricating hydraulic fluids • Excellent extrusion resistance • Good chemical resistance • Good dielectrical properties	15% Glass	706	Off-White	-73 to 260°C	-100 to 500°F	400 bar	5800 psi
ARMORLENE® 700 • Excellent in all hydraulic fluids • Recommended for hard mating surfaces only • Low friction and no stick-slip	Unfilled	700	White	-184 to 204°C	-300 to 400°F	200 bar	2900 psi
ARMORLENE® HCF • Excellent in lubricating and non-lubricating hydraulic fluids (includes water) w/o zinc content • Not recommended for gas sealing applications • Not recommended for electrical conductive fluids	Carbon Fiber Filled	HCF	Gray/ Black	-73 to 260°C	-100 to 500°F	250 bar	3600 psi
ARMORLENE® HCV • Recommended for lubricating and non-lubricating fluids • Excellent for high-frequency and short-stroke applications • Not recommended for gas sealing applications • Not recommended for electrical conductive fluids	High Carbon Fiber Filled	HCV	Gray/ Black	-73 to 260°C	-100 to 500°F	300 bar	4350 psi
ARMORLENE® 711 • Excellent in all lubricating fluids and pneumatic applications • High chemical resistance • Excellent extrusion resistance • Excellent wear properties	25% Carbon/ Graphite	711	Black	-73 to 288°C	-100 to 550°F	400 bar	5800 psi
ARMORLENE® 713 • High compressive strength • Excellent extrusion resistance • Excellent wear properties	60% Bronze Content	713	Bronze	-73 to 288°C	-100 to 550°F	600 bar	8700 psi
748 - UHMWPE • Excellent impact resistance • Good dielectrical properties • Excellent abrasion resistance • Low coefficient of friction	Standard	748	Translucent	-184 to 82°C	-300 to 180°F	350 bar	5000 psi
HU5 - POLYURETHANE, 55D • Positive position load holding • Excellent extrusion resistance • Excellent wear resistance	Standard	HU5	Yellow	-20 to 115°C	-20 to 240°F	500 bar	7250 psi
HYTHANE® 9270111 - POLYESTER, 55D • Positive position load holding • Hydrolysis stabilized • Strong chemical resistance • Excellent extrusion resistance • Excellent wear properties • Available up to 1400mm (55 inches) diameter	Hydrolysis Stabilized	111	Gray	-40 to 120°C	-40 to 250°F	500 bar	7250 psi
HYTHANE® 9270261 - POLYESTER, 55D • Positive position load holding • Internal lubrication provides extended wear in high-speed applications • Excellent extrusion resistance • Excellent wear resistance • Available up to 500mm (19.5 inches) diameter	Internally Lubricated	261	Off-White	-40 to 120°C	-40 to 250°F	500 bar	7250 psi
HE5 - POLYESTER, 55D • Positive position load holding • Excellent extrusion resistance • Excellent wear resistance	Standard	HE5	Gray/ Black	-20 to 115°C	-20 to 240°F	500 bar	7250 psi

For other material options consult the Master Materials Index at the front of the catalog. If you do not find the material that you require, please contact your local Hallite sales office.



Applications with maximum radial clearance that are using nylon, phenolic, or PTFE bearings must ensure proper clearance in accordance with the bearing recommendations to avoid metal-to-metal contact. Please refer to Hallite Type 87, Type 506, and Type 533 Specification Sheets for this information.

INSTALLATION RECOMMENDATIONS

metric

ROD DIAMETER Ød$_1$ f8/h9			GROOVE DIAMETER	GROOVE WIDTH	RADIUS	CHAMFER	GROOVE SECTION	RADIAL CLEARANCE G MAX*			O-RING CROSS SECTION
DIAMETER RANGE			ØD$_1$ H9	L$_1$ + 0.2	R$_1$	C	S	Up to 100 bar	Up to 200 bar	Up to 400 bar	O-Ring
Standard Duty Application - R	Light Duty Application - L	Heavy Duty Application - H									
3.0 - 7.9	8.0 - 18.9	-	d$_1$ + 4.9	2.2	0.4	2.0	2.45	0.30	0.20	0.15	1.78
8.0 - 18.9	19.0 - 37.9	-	d$_1$ + 7.5	3.2	0.6	3.0	3.75	0.40	0.25	0.15	2.62
19.0 - 37.9	38.0 - 199.9	8.0 - 18.9	d$_1$ + 11.0	4.2	1.0	4.0	5.50	0.50	0.30	0.20	3.53
38.0 - 199.9	200.0 - 255.9	19.0 - 37.9	d$_1$ + 15.5	6.3	1.3	6.0	7.75	0.70	0.40	0.25	5.33
200.0 - 255.9	256.0 - 649.9	38 .0 - 199.9	d$_1$ + 21.0	8.1	1.8	8.0	10.50	0.80	0.60	0.35	6.99
256.0 - 649.9	650.0 - 1000.0	200.0 - 255.9	d$_1$ + 24.5	8.1	2.5	9.0	12.25	1.00	0.80	0.50	6.99
650.0 - 1000.0	-	256.0 - 650.0	d$_1$ + 28.0	9.5	3.0	10.0	14.00	1.20	0.90	0.60	8.40
> 1000.0	-	-	d$_1$ + 38.0	13.8	3.0	10.0	19.00	1.20	0.90	0.60	12.00

At pressure >400 bar use diameter tolerance f8/H8.

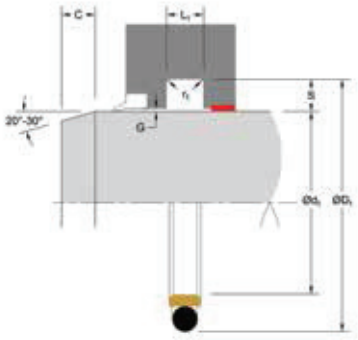
**Radial Clearance G max. = maximum permissible gap all on one side using min. rod diameter and max. clearance diameter.*

inch

ROD DIAMETER Ød$_1$ f8/h9			GROOVE DIAMETER	GROOVE WIDTH	RADIUS	CHAMFER	GROOVE SECTION	RADIAL CLEARANCE G MAX*			O-RING CROSS SECTION
DIAMETER RANGE			ØD$_1$ H9	L$_1$ + 0.008	R$_1$	C	S	Up to 1500 PSI	Up to 2900 PSI	Up to 5800 PSI	O-Ring
Standard Duty Application - R	Light Duty Application - L	Heavy Duty Application - H									
0.312 - 0.624	0.625 - 1.624	-	d$_1$ + 0.193	0.087	0.015	0.079	0.097	0.020	0.012	0.008	0.070
0.625 - 1.624	1.625 - 3.249	-	d$_1$ + 0.287	0.126	0.025	0.118	0.147	0.024	0.016	0.008	0.103
1.625 - 3.249	3.250 - 5.374	0.625 - 1.624	d$_1$ + 0.421	0.165	0.025	0.157	0.216	0.024	0.016	0.008	0.139
3.250 - 5.374	5.375 - 12.999	1.625 - 3.249	d$_1$ + 0.594	0.248	0.035	0.236	0.305	0.031	0.020	0.012	0.210
5.375 - 12.999	13.000 - 26.000	3.250 - 5.374	d$_1$ + 0.807	0.319	0.035	0.315	0.413	0.031	0.020	0.012	0.275
13.000 - 26.000	-	5.375 - 13.000	d$_1$ + 0.945	0.319	0.035	0.354	0.483	0.035	0.020	0.016	0.275

At pressure >5800 psi use diameter tolerance f8/H8.

**Radial Clearance G max. = maximum permissible gap all on one side using min. rod diameter and max. clearance diameter.*



RDA

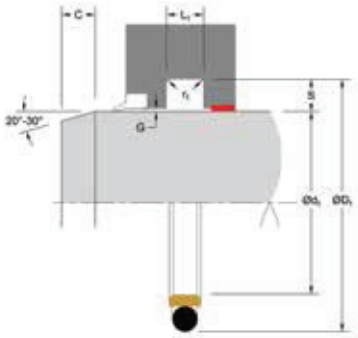
ROD SEAL

Double-Acting

PART NUMBER RANGE (METRIC)*

metric			
Ød$_1$	ØD$_1$	L$_1$	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
8.0	15.5	3.2	RDAMR00080****
8.0	12.9	2.2	RDAML00080****
10.0	17.5	3.2	RDAMR00100****
10.0	14.9	2.2	RDAML00100****
12.0	19.5	3.2	RDAMR00120****
12.0	16.9	2.2	RDAML00120****
14.0	21.5	3.2	RDAMR00140****
14.0	18.9	2.2	RDAML00140****
15.0	22.5	3.2	RDAMR00150****
15.0	19.9	2.2	RDAML00150****
16.0	23.5	3.2	RDAMR00160****
16.0	20.9	2.2	RDAML00160****
18.0	25.5	3.2	RDAMR00180****
18.0	22.9	2.2	RDAML00180****
20.0	31.0	4.2	RDAMR00200****
20.0	27.5	3.2	RDAML00200****
22.0	33.0	4.2	RDAMR00220****
22.0	29.5	3.2	RDAML00220****
25.0	36.0	4.2	RDAMR00250****
25.0	32.5	3.2	RDAML00250****
28.0	39.0	4.2	RDAMR00280****
28.0	35.5	3.2	RDAML00280****
30.0	41.0	4.2	RDAMR00300****
30.0	37.5	3.2	RDAML00300****
32.0	43.0	4.2	RDAMR00320****
32.0	39.5	3.2	RDAML00320****
35.0	46.0	4.2	RDAMR00350****
35.0	42.5	3.2	RDAML00350****

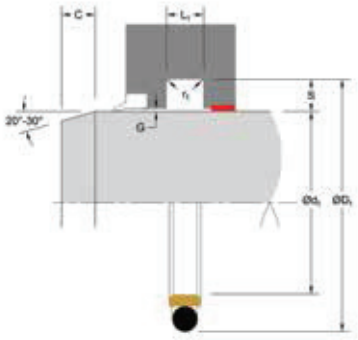
metric			
Ød$_1$	ØD$_1$	L$_1$	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
36.0	47.0	4.2	RDAMR00360****
36.0	43.5	3.2	RDAML00360****
40.0	55.5	6.3	RDAMR00400****
40.0	51.0	4.2	RDAML00400****
43.0	58.5	6.3	RDAMR00430****
42.0	53.0	4.2	RDAML00420****
45.0	60.5	6.3	RDAMR00450****
45.0	56.0	4.2	RDAML00450****
50.0	65.5	6.3	RDAMR00500****
50.0	61.0	4.2	RDAML00500****
55.0	70.5	6.3	RDAMR00550****
55.0	66.0	4.2	RDAML00550****
56.0	71.5	6.3	RDAMR00560****
56.0	67.0	4.2	RDAML00560****
56.0	77.0	8.1	RDAMH00560****
60.0	75.5	6.3	RDAMR00600****
60.0	71.0	4.2	RDAML00600****
60.0	81.0	8.1	RDAMH00600****
63.0	78.5	6.3	RDAMR00630****
63.0	74.0	4.2	RDAML00630****
63.0	84.0	8.1	RDAMH00630****
65.0	80.5	6.3	RDAMR00650****
65.0	76.0	4.2	RDAML00650****
65.0	86.0	8.1	RDAMH00650****
70.0	85.5	6.3	RDAMR00700****
70.0	81.0	4.2	RDAML00700****
70.0	91.0	8.1	RDAMH00700****
75.0	90.5	6.3	RDAMR00750****



PART NUMBER RANGE (METRIC)*

metric			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
75.0	96.0	8.1	RDAMH00750****
78.0	93.5	6.3	RDAMR00780****
78.0	99.0	8.1	RDAMH00780****
80.0	95.5	6.3	RDAMR00800****
80.0	101.0	8.1	RDAMH00800****
85.0	100.5	6.3	RDAMR00850****
85.0	106.0	8.1	RDAMH00850****
90.0	105.5	6.3	RDAMR00900****
90.0	111.0	8.1	RDAMH00900****
95.0	110.5	6.3	RDAMR00950****
95.0	116.0	8.1	RDAMH00950****
97.0	112.5	6.3	RDAMR00970****
97.0	118.0	8.1	RDAMH00970****
100.0	115.5	6.3	RDAMR01000****
100.0	121.0	8.1	RDAMH01000****
105.0	120.5	6.3	RDAMR01050****
105.0	126.0	8.1	RDAMH01050****
110.0	125.5	6.3	RDAMR01100****
110.0	131.0	8.1	RDAMH01100****
115.0	130.5	6.3	RDAMR01150****
115.0	136.0	8.1	RDAMH01150****
120.0	135.5	6.3	RDAMR01200****
120.0	141.0	8.1	RDAMH01200****
125.0	140.5	6.3	RDAMR01250****
125.0	146.0	8.1	RDAMH01250****
130.0	145.5	6.3	RDAMR01300****
130.0	151.0	8.1	RDAMH01300****
135.0	150.5	6.3	RDAMR01350****

metric			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
135.0	156.0	8.1	RDAMH01350****
140.0	155.5	6.3	RDAMR01400****
140.0	161.0	8.1	RDAMH01400****
145.0	160.5	6.3	RDAMR01450****
145.0	166.0	8.1	RDAMH01450****
150.0	165.5	6.3	RDAMR01500****
150.0	171.0	8.1	RDAMH01500****
155.0	170.5	6.3	RDAMR01550****
155.0	176.0	8.1	RDAMH01550****
160.0	175.5	6.3	RDAMR01600****
160.0	181.0	8.1	RDAMH01600****
170.0	185.5	6.3	RDAMR01700****
170.0	191.0	8.1	RDAMH01700****
180.0	195.5	6.3	RDAMR01800****
180.0	201.0	8.1	RDAMH01800****
190.0	205.5	6.3	RDAMR01900****
190.0	211.0	8.1	RDAMH01900****
200.0	215.5	6.3	RDAML02000****
200.0	224.5	8.1	RDAMR02000****
210.0	231.0	8.1	RDAMR02100****
210.0	234.5	8.1	RDAMH02100****
220.0	241.0	8.1	RDAMR02200****
220.0	244.5	8.1	RDAMH02200****
225.0	246.0	8.1	RDAMR02250****
225.0	249.5	8.1	RDAMH02250****
240.0	261.0	8.1	RDAMR02400****
240.0	264.5	8.1	RDAMH02400****
250.0	271.0	8.1	RDAMR02500****



RDA

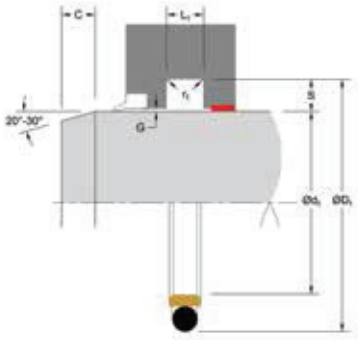
ROD SEAL

Double-Acting

PART NUMBER RANGE (METRIC)*

metric			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
250.0	274.5	8.1	RDAMH02500****
260.0	284.5	8.1	RDAMR02600****
260.0	288.0	9.5	RDAMH02600****
270.0	294.5	8.1	RDAMR02700****
270.0	298.0	9.5	RDAMH02700****
280.0	304.5	8.1	RDAMR02800****
280.0	308.0	9.5	RDAMH02800****
290.0	314.5	8.1	RDAMR02900****
290.0	318.0	9.5	RDAMH02900****
300.0	324.5	8.1	RDAMR03000****
300.0	328.0	9.5	RDAMH03000****
320.0	344.5	8.1	RDAMR03200****
320.0	348.0	9.5	RDAMH03200****
330.0	354.5	8.1	RDAMR03300****
330.0	358.0	9.5	RDAMH03300****
340.0	364.5	8.1	RDAMR03400****
340.0	368.0	9.5	RDAMH03400****
350.0	374.5	8.1	RDAMR03500****
350.0	378.0	9.5	RDAMH03500****
360.0	384.5	8.1	RDAMR03600****
360.0	388.0	9.5	RDAMH03600****
370.0	394.5	8.1	RDAMR03700****
370.0	398.0	9.5	RDAMH03700****
380.0	404.5	8.1	RDAMR03800****
380.0	408.0	9.5	RDAMH03800****
390.0	414.5	8.1	RDAMR03900****
390.0	418.0	9.5	RDAMH03900****
400.0	424.5	8.1	RDAMR04000****

metric			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
400.0	428.0	9.5	RDAMH04000****
410.0	434.5	8.1	RDAMR04100****
410.0	438.0	9.5	RDAMH04100****
420.0	444.5	8.1	RDAMR04200****
420.0	448.0	9.5	RDAMH04200****
450.0	474.5	8.1	RDAMR04500****
450.0	478.0	9.5	RDAMH04500****
460.0	484.5	8.1	RDAMR04600****
460.0	488.0	9.5	RDAMH04600****
480.0	504.5	8.1	RDAMR04800****
480.0	508.0	9.5	RDAMH04800****
500.0	524.5	8.1	RDAMR05000****
500.0	528.0	9.5	RDAMH05000****
520.0	544.5	8.1	RDAMR05200****
520.0	548.0	9.5	RDAMH05200****
550.0	574.5	8.1	RDAMR05500****
550.0	578.0	9.5	RDAMH05500****
560.0	584.5	8.1	RDAMR05600****
560.0	588.0	9.5	RDAMH05600****
590.0	614.5	8.1	RDAMR05900****
590.0	618.0	9.5	RDAMH05900****
600.0	624.5	8.1	RDAMR06000****
600.0	628.0	9.5	RDAMH06000****
625.0	649.5	8.1	RDAMR06250****
625.0	653.0	9.5	RDAMH06250****
650.0	678.0	9.5	RDAMR06500****
700.0	728.0	9.5	RDAMR07000****
750.0	778.0	9.5	RDAMR07500****



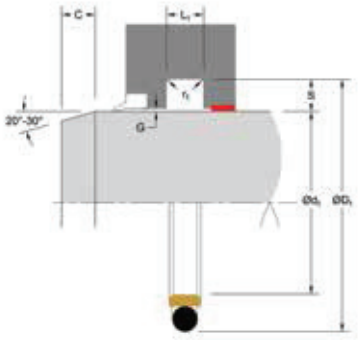
PART NUMBER RANGE (METRIC)*

metric			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.2	
800.0	828.0	9.5	RDAMR08000****
850.0	878.0	9.5	RDAMR08500****
900.0	928.0	9.5	RDAMR09000****
950.0	978.0	9.5	RDAMR09500****
1000.0	1038.0	13.8	RDAMR10000****
1050.0	1088.0	13.8	RDAMR10500****
1100.0	1138.0	13.8	RDAMR11000****
1150.0	1188.0	13.8	RDAMR11500****
1200.0	1238.0	13.8	RDAMR12000****
1250.0	1288.0	13.8	RDAMR12500****
1300.0	1338.0	13.8	RDAMR13000****
1350.0	1388.0	13.8	RDAMR13500****

**Please contact Hallite for custom sizes, material selection, or seal design.*

PART NUMBER RANGE (INCH)*

inch			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.008	
0.500	0.693	0.087	RDAER00500****
0.562	0.755	0.087	RDAER00562****
0.625	0.912	0.126	RDAER00625****
0.687	0.974	0.126	RDAER00687****
0.750	1.037	0.126	RDAER00750****
0.812	1.099	0.126	RDAER00812****
0.875	1.162	0.126	RDAER00875****
0.937	1.224	0.126	RDAER00937****
1.000	1.287	0.126	RDAER01000****
1.062	1.349	0.126	RDAER01062****
1.125	1.412	0.126	RDAER01125****
1.187	1.474	0.126	RDAER01187****
1.250	1.537	0.126	RDAER01250****
1.312	1.599	0.126	RDAER01312****
1.375	1.662	0.126	RDAER01375****
1.437	1.724	0.126	RDAER01437****
1.500	1.787	0.126	RDAER01500****
1.562	1.849	0.126	RDAER01562****
1.625	2.046	0.165	RDAER01625****
1.687	2.108	0.165	RDAER01687****
1.750	2.171	0.165	RDAER01750****
1.812	2.233	0.165	RDAER01812****
1.875	2.296	0.165	RDAER01875****
1.937	2.358	0.165	RDAER01937****
2.000	2.421	0.165	RDAER02000****
2.125	2.546	0.165	RDAER02125****
2.250	2.671	0.165	RDAER02250****
2.375	2.796	0.165	RDAER02375****



RDA

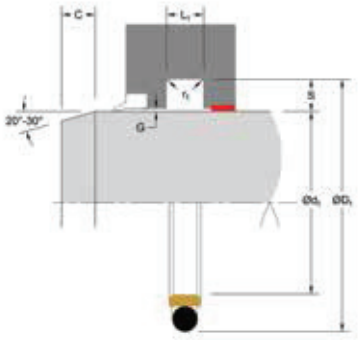
ROD SEAL

Double-Acting

PART NUMBER RANGE (INCH)*

inch			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.008	
2.500	2.921	0.165	RDAER02500****
2.625	3.046	0.165	RDAER02625****
2.750	3.171	0.165	RDAER02750****
2.875	3.296	0.165	RDAER02875****
3.000	3.421	0.165	RDAER03000****
3.125	3.546	0.165	RDAER03125****
3.250	3.844	0.248	RDAER03250****
3.375	3.969	0.248	RDAER03375****
3.500	4.094	0.248	RDAER03500****
3.625	4.219	0.248	RDAER03625****
3.750	4.344	0.248	RDAER03750****
3.875	4.469	0.248	RDAER03875****
4.000	4.594	0.248	RDAER04000****
4.125	4.719	0.248	RDAER04125****
4.250	4.844	0.248	RDAER04250****
4.375	4.969	0.248	RDAER04375****
4.500	5.094	0.248	RDAER04500****
4.625	5.219	0.248	RDAER04625****
4.750	5.344	0.248	RDAER04750****
4.875	5.469	0.248	RDAER04875****
5.000	5.594	0.248	RDAER05000****
5.125	5.719	0.248	RDAER05125****
5.250	5.844	0.248	RDAER05250****
5.375	6.182	0.319	RDAER05375****
5.500	6.307	0.319	RDAER05500****
5.625	6.432	0.319	RDAER05625****
5.750	6.557	0.319	RDAER05750****
6.000	6.807	0.319	RDAER06000****

inch			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.008	
6.250	7.057	0.319	RDAER06250****
6.500	7.307	0.319	RDAER06500****
6.750	7.557	0.319	RDAER06750****
7.000	7.807	0.319	RDAER07000****
7.250	8.057	0.319	RDAER07250****
7.500	8.307	0.319	RDAER07500****
7.750	8.557	0.319	RDAER07750****
8.000	8.807	0.319	RDAER08000****
8.250	9.057	0.319	RDAER08250****
8.500	9.307	0.319	RDAER08500****
8.750	9.557	0.319	RDAER08750****
9.000	9.807	0.319	RDAER09000****
9.250	10.057	0.319	RDAER09250****
9.500	10.307	0.319	RDAER09500****
9.750	10.557	0.319	RDAER09750****
10.000	10.807	0.319	RDAER10000****
10.500	11.307	0.319	RDAER10500****
11.000	11.807	0.319	RDAER11000****
11.500	12.307	0.319	RDAER11500****
12.000	12.945	0.319	RDAEH12000****
12.500	13.445	0.319	RDAEH12500****
13.000	13.945	0.319	RDAER13000****
13.500	14.445	0.319	RDAER13500****
14.000	14.945	0.319	RDAER14000****
14.500	15.445	0.319	RDAER14500****
15.000	15.945	0.319	RDAER15000****
15.500	16.445	0.319	RDAER15500****
16.000	16.945	0.319	RDAER16000****



PART NUMBER RANGE (INCH)*

inch			
$Ød_1$	$ØD_1$	L_1	PART NUMBER
Tol. f8/h9	Tol. H9	Tol. +0.008	
16.500	17.445	0.319	RDAER16500****
17.000	17.945	0.319	RDAER17000****
17.500	18.445	0.319	RDAER17500****
18.000	18.945	0.319	RDAER18000****
18.500	19.445	0.319	RDAER18500****
19.000	19.945	0.319	RDAER19000****
19.500	20.445	0.319	RDAER19500****
20.000	20.945	0.319	RDAER20000****

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