

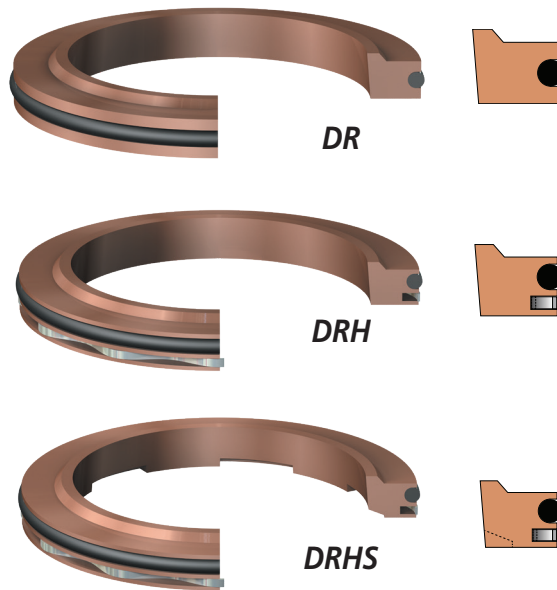


**HYDROWYPE**

**D-SERIES, DR, DRH, DRHS, HEAVY-DUTY ROD SCRAPERS**

D-Series scrapers are produced in several standard styles - DR (for compatibility with historical designs), DRH (with o-ring and serpentine spring) - recommended for new applications, and DRHS (slotted heel) - for pairing with secondary wiper. D-series scrapers are designed to be installed using a retainer (keeper-plate or retaining ring) but can be configured in an installation vessel to permit press-in installation. D-Series scrapers have a large cross-section, providing increased resistance to the forces generated by contaminants bonded to the surface of the rod. These forces tend to cause the scraper body to lift away from the rod surface, reducing the effectiveness of the scraper.

The heavier body of the D-Series allows for a heavier serpentine spring to be used, which generates more clamping load to resist the over-ride of strongly bonded contaminants. DRH D-Series scrapers use a high-load serpentine spring and an O-ring that protrudes 0.02" beyond the OD of the scraper body to seal against the housing groove in the gland and prevent outer-ingression. This design results in the highest performing scraper. DRHS D-Series scraper has a slotted heel that allows for the egress of contaminants that bypass the scraper and accumulate between the scraper and a wiper or other secondary exclusion seal. However, designers should consider the further accumulation of these particles.



DR, DRH, DRHS

Available compounds based on style.  
Contact MFP Seals for detailed information.

**HYDROWYPE PART NUMBER**

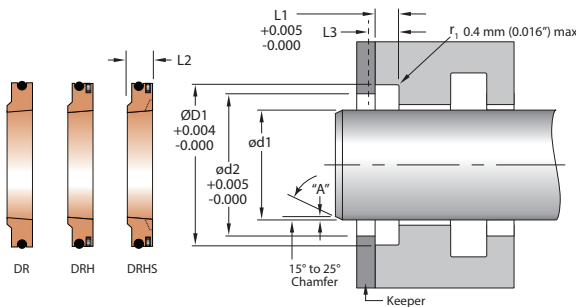
**DRH-01C/N6001**  
SEAL TYPE      DASH#      FINISH      O-RING COMPOUND\*\*

**FINISH DESIGNATION**

B = UNFINISHED\* (Standard)      N = NICKEL  
C = CADMIUM      Z = ZINC

\*Unfinished parts are susceptible to oxidation and should not be stored for long periods without appropriate treatment. Parts will be shipped in plastic bags with light coating of machine oil to prevent corrosion.

\*\*For a list of available elastomeric compounds for o-rings, please refer to page 45 & 46.



Scrapers are typically held in place by a Keeper/Follower plate or Retaining Ring.

MFP PART NUMBER	ROD APPLICATION				
	ød1	ØD1	ød2	L1	L3
<b>.250" - GROOVE</b>	NOMINAL	+0.004/-0.000	+0.005/-0.000	+0.005/-0.000	+0.005/-0.000
DRH-17	1.500	1.875	1.638	0.250	0.280
DRH-18	1.625	2.000	1.763	0.250	0.280
DRH-19	1.750	2.125	1.888	0.250	0.280
DRH-20	1.875	2.250	2.013	0.250	0.280
DRH-21	2.000	2.500	2.138	0.250	0.280
DRH-22	2.125	2.625	2.263	0.250	0.280
DRH-23	2.250	2.750	2.388	0.250	0.280
DRH-24	2.375	2.875	2.513	0.250	0.280
DRH-25	2.500	3.000	2.638	0.250	0.280
DRH-26	2.625	3.125	2.794	0.250	0.280
DRH-27	2.750	3.250	2.919	0.250	0.280

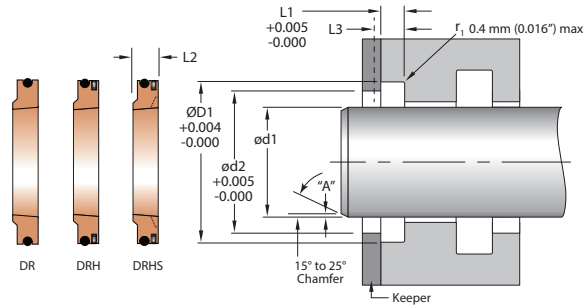
ROD SCRAPERS



# D-Series, DR, DRH, DRHS - Heavy Duty Rod Scrapers

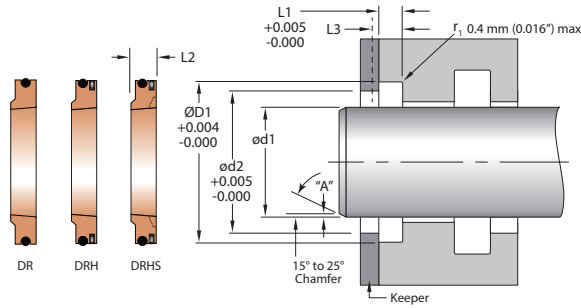
Heavy Duty

DR, DRH, DRHS



ROD SCRAPERS

MFP PART NUMBER	ROD APPLICATION				
	$\varnothing d1$	$\varnothing D1$	$\varnothing d2$	L1	L3
<b>.250" - GROOVE</b>	NOMINAL	+0.004/-0.000	+0.005/-0.000	+0.005/-0.000	+0.005/-0.000
DRH-28	2.875	3.375	3.044	0.250	0.280
DRH-29	3.000	3.500	3.169	0.250	0.280
DRH-30	3.125	3.625	3.294	0.250	0.290
DRH-31	3.250	3.750	3.419	0.250	0.290
DRH-32	3.375	3.875	3.544	0.250	0.290
DRH-33	3.500	4.000	3.669	0.250	0.290
DRH-34	3.625	4.125	3.794	0.250	0.290
DRH-35	3.750	4.250	3.919	0.250	0.290
DRH-36	3.875	4.375	4.044	0.250	0.290
DRH-37	4.000	4.500	4.200	0.250	0.290
DRH-38	4.125	4.625	4.325	0.250	0.290
DRH-39	4.250	4.750	4.450	0.250	0.290
DRH-40	4.375	4.875	4.575	0.250	0.290
DRH-41	4.500	5.250	4.700	0.250	0.300
DRH-42	4.625	5.375	4.825	0.250	0.300
DRH-43	4.750	5.500	4.950	0.250	0.300
DRH-44	4.875	5.625	5.075	0.250	0.300
DRH-45	5.000	5.750	5.200	0.250	0.300
<b>.375" - GROOVE</b>	NOMINAL	+0.004/-0.000	+0.005/-0.000	+0.005/-0.000	+0.005/-0.000
DRH-46	5.125	5.875	5.325	0.375	0.425
DRH-47	5.250	6.000	5.450	0.375	0.425
DRH-48	5.375	6.125	5.575	0.375	0.425
DRH-49	5.500	6.250	5.700	0.375	0.425
DRH-50	5.625	6.375	5.856	0.375	0.425
DRH-51	5.750	6.500	5.982	0.375	0.425
DRH-52	5.875	6.625	6.106	0.375	0.425
DRH-53	6.000	6.750	6.232	0.375	0.425
DRH-54	6.250	7.000	6.482	0.375	0.425
DRH-55	6.500	7.250	6.732	0.375	0.425
DRH-56	6.750	7.500	6.982	0.375	0.425
DRH-57	7.000	7.750	7.232	0.375	0.425
DRH-58	7.250	8.000	7.482	0.375	0.425
DRH-59	7.500	8.250	7.732	0.375	0.425
DRH-60	7.750	8.500	7.982	0.375	0.425
DRH-61	8.000	8.750	8.232	0.375	0.425



DR, DRH, DRHS

MFP PART NUMBER	SNAP-IN ROD APPLICATION				
	ød1	ØD1	ød2	L1	L3
<b>.375" - GROOVE</b>	NOMINAL	+0.004/-0.000	+0.005/-0.000	+0.005/-0.000	+0.005/-0.000
DRH-62	8.500	9.250	8.732	0.375	0.425
DRH-63	9.000	9.750	9.232	0.375	0.425
DRH-64	9.500	10.250	9.732	0.375	0.425
DRH-65	10.000	11.000	10.232	0.375	0.455
DRH-66	10.500	11.500	10.732	0.375	0.455
DRH-67	11.000	12.000	11.232	0.375	0.455
DRH-68	11.500	12.500	11.732	0.375	0.455
DRH-69	12.000	13.000	12.232	0.375	0.455
DRH-70	12.500	13.500	12.732	0.375	0.455
<b>.500" - GROOVE</b>	NOMINAL	+0.004/-0.000	+0.005/-0.000	+0.005/-0.000	+0.005/-0.000
DRH-71	13.000	14.000	13.232	0.500	0.580

ROD SCRAPERS