

**HYDRA-T PART NUMBERING SYSTEM**

**P** - **1** **133** - **N** **AN** **CD**

**BACK-UP RING STYLE**  
1 = NON-RADIUS (HT)  
2 = RADIUS (AHT)  
3 = LOCKING (LOK-T)

**UNIFORM DASH NO. SIZE**

**ELASTOMER COMPOUND NO.**

**BACK-UP RING MATERIAL**

**GROOVE WIDTH**

N = NARROW (NO BACK-UP O-RING GROOVE, AVAILABLE IN HT & LOK-T STYLES)  
M = MEDIUM (1 BACK-UP O-RING GROOVE, AVAILABLE IN AHT & LOK-T STYLES)  
W = WIDE (2 BACK-UP O-RING GROOVE, AVAILABLE IN AHT & LOK-T STYLES)

**HT STYLE**



**AHT STYLE**

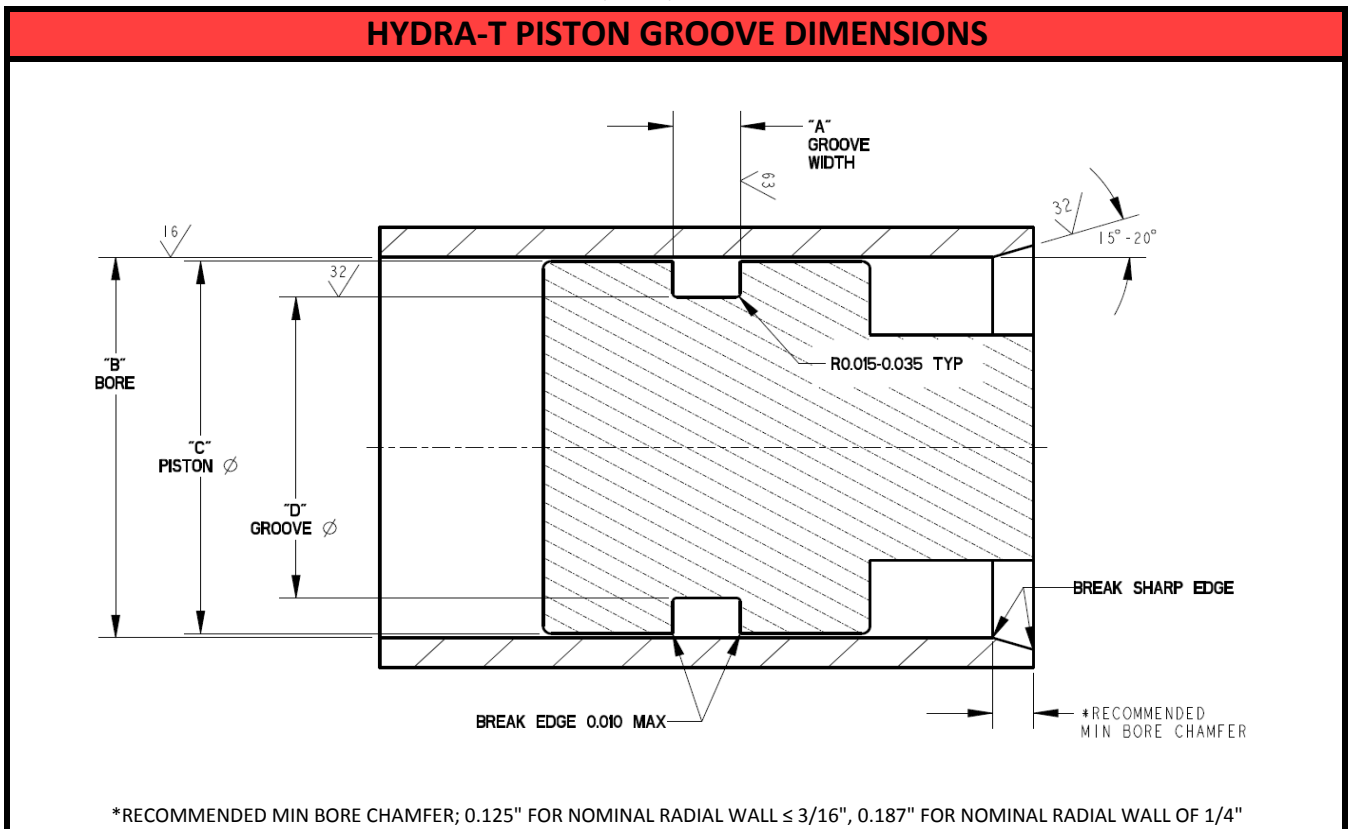


**LOK-T STYLE**



HYDRA-T MATERIAL SELECTIONS					
SERVICE	TEMP RANGE	HPS SEAL COMPOUND	DUROMETER	BASE POLYMER	COMPATIBLE BACK-UP MATERIAL
General purpose hydraulic oils, petroleum based lubricating oils, air, water*, glycol, ATF, and soluble oils.	-40°F to +250°F	AN	70A	Nitrile	CD = MoS <sub>2</sub> Loaded Nylon AB = Virgin PTFE EB = Glass Filled PTFE
MIL-H-5606 MIL-H-6083	-65°F to +275°F	BN	70A	Nitrile	CD AB EB
Gasoline Kerosene	-65°F to +160°F				
Phosphate ester emulsions	-65°F to +250°F	EP	70A	EPR Ethylene Propylene	CD AB EB
Unleaded gasoline Pydraul 30E, 50E, 80E, & 115E	-20°F to +400°F	AV	75A	Fluorocarbon	AB EB

\* DO NOT USE CD NYLON IN HIGH WATER CONTENT FLUIDS (HWCF)



Note:  
Not all sizes listed are tooled.  
Please contact HPS for availability and custom sizes.

HYDRA-T SEAL FAMILY										
Standard Dash Number	Radial Wall	"B" Bore Dia.	Tol.	"D" Groove Dia.	Tol.	"A" Groove Width (+0.005"/-0.000")			"C" Piston Dia.	Tol.
						Narrow	Medium	Wide		
006	1/16"  (0.067" to 0.073")	0.250"	+0.001" -0.000"	0.138"	+0.000" -0.001"	0.094"	0.149"	0.207"	0.247"	+0.002" -0.000"
007		0.281"		0.169"					0.278"	
008		0.312"		0.200"					0.309"	
009		0.344"		0.232"					0.341"	
010		0.375"		0.263"					0.372"	
011		0.437"		0.325"					0.434"	
012		0.500"		0.388"					0.497"	
110	3/32"  (0.100" to 0.106")	0.562"	+0.002" -0.000"	0.384"	+0.000" -0.002"	0.141"	0.183"	0.245"	0.559"	+0.002" -0.000"
111		0.625"		0.447"					0.622"	
112		0.687"		0.509"					0.684"	
113		0.750"		0.572"					0.747"	
114		0.812"		0.634"					0.809"	
115		0.875"		0.697"					0.872"	
116		0.937"		0.759"					0.934"	
210	1/8"  (0.135" to 0.143")	1.000"	+0.002" -0.000"	0.757"	+0.000" -0.002"	0.188"	0.235"	0.304"	0.997"	+0.002" -0.000"
211		1.063"		0.820"					1.060"	
212		1.125"		0.882"					1.122"	
213		1.188"		0.945"					1.185"	
214		1.250"		1.007"					1.247"	
215		1.313"		1.070"					1.310"	
216		1.375"		1.132"					1.372"	
217		1.438"		1.195"					1.435"	
218		1.500"		1.257"					1.497"	
219		1.563"		1.320"					1.560"	
220		1.625"		1.382"					1.622"	
221		1.688"		1.445"					1.685"	
222		1.750"		1.507"					1.747"	
325	3/16"  (0.205" to 0.215")	1.875"	+0.002" -0.000"	1.503"	+0.000" -0.002"	0.281"	0.334"	0.424"	1.872"	+0.002" -0.000"
326		2.000"		1.628"					1.997"	
327		2.125"		1.753"					2.122"	
328		2.250"		1.878"					2.247"	
329		2.375"		2.003"					2.372"	
330		2.500"		2.128"					2.497"	
331		2.625"		2.253"					2.622"	
332		2.750"		2.378"					2.747"	
333		2.875"		2.503"					2.872"	
334		3.000"		2.628"					2.997"	

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HYDRA-T SEAL FAMILY										
Standard Dash Number	Radial Wall	"B" Bore Dia.	Tol.	"D" Groove Dia.	Tol.	"A" Groove Width (+0.005"/-0.000")			"C" Piston Dia.	Tol.
						Narrow	Medium	Wide		
335	3/16"  (0.205" to 0.215")	3.125"	+0.002" -0.000"	2.753"	+0.000" -0.002"	0.281"	0.334"	0.424"	3.122"	+0.002" -0.000"
336		3.250"		2.878"					3.247"	
337		3.375"		3.003"					3.372"	
338		3.500"		3.128"					3.497"	
339		3.625"		3.253"					3.622"	
340		3.750"		3.378"					3.747"	
341		3.875"		3.503"					3.872"	
342		4.000"		3.628"					3.997"	
343		4.125"		3.753"					4.122"	
344		4.250"		3.878"					4.247"	
345		4.375"		4.003"					4.372"	
346		4.500"		4.128"					4.497"	
347		4.625"		4.253"					4.622"	
348		4.750"		4.378"					4.747"	
349		4.875"		4.503"					4.872"	
425	1/4"  (0.269" to 0.281")	5.001"	+0.003" -0.000"	4.524"	+0.000" -0.003"	0.375"	0.475"	0.579"	4.998"	+0.002" -0.000"
426		5.126"		4.649"					5.123"	
427		5.251"		4.774"					5.248"	
428		5.376"		4.899"					5.373"	
429		5.501"		5.024"					5.498"	
430		5.626"		5.149"					5.623"	
431		5.751"		5.274"					5.748"	
432		5.876"		5.399"					5.873"	
433		6.001"		5.524"					5.998"	
434		6.126"		5.649"					6.123"	
435		6.251"		5.774"					6.248"	
436		6.376"		5.889"					6.373"	
437		6.501"		6.024"					6.498"	
438		6.751"		6.274"					6.748"	
439		7.001"		6.524"					6.998"	
440		7.251"		6.774"					7.248"	
441		7.501"		7.024"					7.498"	
442		7.751"		7.274"					7.748"	
443		8.001"		7.524"					7.998"	
444		8.251"		7.774"					8.248"	
445		8.501"		8.024"					8.498"	
446	9.001"	8.524"	8.998"							

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HYDRA-T SEAL FAMILY										
Standard Dash Number	Radial Wall	"B" Bore Dia.	Tol.	"D" Groove Dia.	Tol.	"A" Groove Width (+0.005"/-0.000")			"C" Piston Dia.	Tol.
						Narrow	Medium	Wide		
447	1/4" (0.269" to 0.281")	9.501"	+0.004" -0.000"	9.024"	+0.000" -0.003"	0.375"	0.475"	0.579"	9.498"	+0.002" -0.000"
448		10.001"		9.524"					9.998"	
449		10.501"		10.024"					10.498"	
450		11.001"		10.524"					10.998"	
451		11.501"		11.024"					11.498"	
452		12.001"		11.524"					11.998"	
453		12.501"		12.024"					12.498"	
454		13.001"		12.524"					12.998"	
455		13.501"		13.024"					13.498"	
456		14.001"		13.524"					13.998"	
457		14.501"		14.024"					14.498"	
458		15.001"		14.524"					14.998"	
459		15.501"		15.024"					15.498"	
460		16.001"		15.524"					15.998"	

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