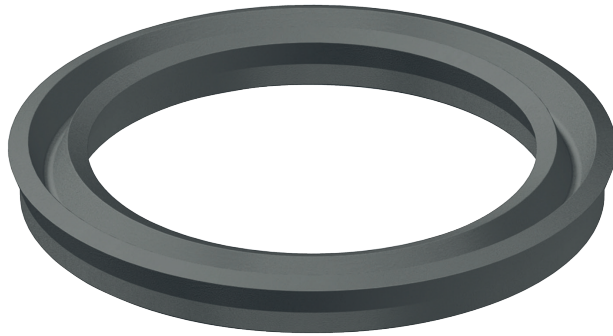


Homogenous U-Cups



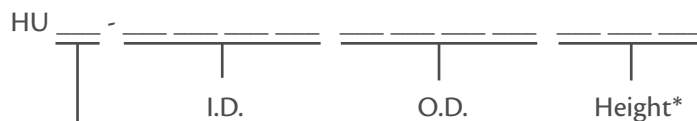
Materials	Temp. Range		
Nitrile	-40°C	to	120°C
Viton™/Fluorocarbon	-26°C	to	204°C
Chloroprene	-40°C	to	121°C

Product Description

Homogenous U-cups (HU), also known as block vees, are non-loaded U-cups. They are a popular seal in low pressure applications where a low friction seal is beneficial. HU seals are most commonly used in pneumatic applications as a rod or piston seal. The design is suited for situations where space is limited. HU seals are typically made from an 80 durometer nitrile; however, they are also available in Viton™/fluorocarbon, chloroprene, and other homogenous materials.

As pressure is applied to the HU, there is an increase in sealing force until the seal reaches the maximum pressure it is able to handle. These seals can withstand a pressure rating of up to 500 PSI. Contact us if your application requires a higher pressure rating.

Part Numbers:

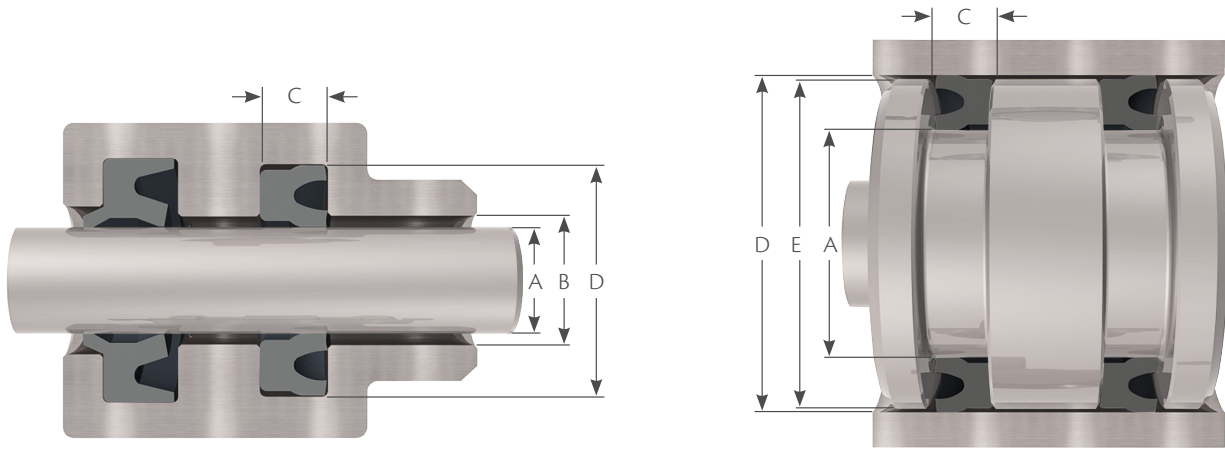


** Height is only listed if the axial height is greater than the cross-section.*

- Blank - Nitrile
- V - Viton™
- N - Neoprene

Example: HU 0437 0688 - Homogenous, U-Cup, Nitrile, 7/16" Nom. I.D., 11/16" Nom. O.D.

Homogenous U-Cups



Homogenous U-Cups

Seal O.D.	Dim.	A		B	
		Groove Tol.	Shaft Tol.	Throat Ø Dim.	Tol.
0.125 - 1.500	Nom ID	+ 0.000 - 0.001	+ 0.000 - 0.001	ID + 0.001	+ 0.002 - 0.000
1.506 - 2.500	"	+ 0.000 - 0.002	+ 0.000 - 0.001	ID + 0.001	+ 0.002 - 0.000
2.506 - 8.000	"	+ 0.000 - 0.003	+ 0.000 - 0.002	ID + 0.001	+ 0.003 - 0.000
8.250+	"	+ 0.000 - 0.004	+ 0.000 - 0.003	ID + 0.002	+ 0.004 - 0.000

Seal O.D.	Dim.	D		E	
		Bore Tol.	Gland Tol.	Piston Ø Dim.	Tol.
0.250 - 2.375	Nom OD	+ 0.003 - 0.000	+ 0.002 - 0.000	OD - 0.002	+ 0.000 - 0.001
2.437 - 4.750	"	+ 0.004 - 0.000	+ 0.003 - 0.000	OD - 0.002	+ 0.000 - 0.002
5.000 - 7.750	"	+ 0.004 - 0.000	+ 0.003 - 0.000	OD - 0.003	+ 0.000 - 0.003
8.000+	"	+ 0.005 - 0.000	+ 0.003 - 0.000	OD - 0.003	+ 0.000 - 0.004

The Groove Width (C) is the seal height + 1/32nd ± 0.010

Part Number	Nominal		
	A	D	C/S
	Shaft/Piston Groove Dia.	Bore/Rod Groove Dia.	
HU 01250250	1/8	1/4	1/16
HU 01250312	1/8	5/16	3/32
HU 01250375	1/8	3/8	1/8
HU 01250500	1/8	1/2	3/16
HU 01560281	5/32	9/32	1/16
HU 01870312	3/16	5/16	1/16
HU 01870375	3/16	3/8	3/32
HU 01870437	3/16	7/16	1/8
HU 01870562	3/16	9/16	3/16
HU 02180343	7/32	11/32	1/16
HU 02180406	7/32	13/32	3/32
HU 02500375	1/4	3/8	1/16
HU 02500437	1/4	7/16	3/32
HU 02500500	1/4	1/2	1/8

Part Number	Nominal		
	A	D	C/S
	Shaft/Piston Groove Dia.	Bore/Rod Groove Dia.	
HU 02500562	1/4	9/16	5/32
HU 02500625	1/4	5/8	3/16
HU 02500750	1/4	3/4	1/4
HU 03120437	5/16	7/16	1/16
HU 03120500	5/16	1/2	3/32
HU 03120562	5/16	9/16	1/8
HU 03120687	5/16	11/16	3/16
HU 03120812	5/16	13/16	1/4
HU 03750500	3/8	1/2	1/16
HU 03750562	3/8	9/16	3/32
HU 03750625	3/8	5/8	1/8
HU 03750750	3/8	3/4	3/16
HU 03750875	3/8	7/8	1/4
HU 04370625	7/16	5/8	3/32

Homogenous U-Cups

IMPERIAL SEALS

Part Number	Nominal		C/S
	A Shaft/Piston Groove Dia.	D Bore/Rod Groove Dia.	
HU 04370812	7/16	13/16	3/16
HU 04370937	7/16	15/16	1/4
HU 05000625	1/2	5/8	1/16
HU 05000687	1/2	11/16	3/32
HU 05000750	1/2	3/4	1/8
HU 05000812	1/2	13/16	5/32
HU 05000875	1/2	7/8	3/16
HU 05001000	1/2	1	1/4
HU 05620750	9/16	3/4	3/32
HU 05620813	9/16	13/16	1/8
HU 05621062	9/16	1 - 1/16	1/4
HU 05930844	19/32	27/32	1/8
HU 06250813	5/8	13/16	3/32
HU 06250875	5/8	7/8	1/8
HU 06251000	5/8	1	3/16
HU 06251125	5/8	1 - 1/8	1/4
HU 06870875	11/16	7/8	3/32
HU 06870937	11/16	15/16	1/8
HU 06871062	11/16	1 - 1/16	3/16
HU 06871187	11/16	1 - 3/16	1/4
HU 07500937	3/4	15/16	3/32
HU 07501000	3/4	1	1/8
HU 07501125	3/4	1 - 1/8	3/16
HU 07501250	3/4	1 - 1/4	1/4
HU 08121000	13/16	1	3/32
HU 08121062	13/16	1 - 1/16	1/8
HU 08121125	13/16	1 - 1/8	5/32
HU 08121312	13/16	1 - 5/16	1/4
HU 08751000	7/8	1	1/16
HU 08751062	7/8	1 - 1/16	3/32
HU 08751125	7/8	1 - 1/8	1/8
HU 08751187	7/8	1 - 3/16	5/32
HU 08751250	7/8	1 - 1/4	3/16
HU 08751375	7/8	1 - 3/8	1/4
HU 09371187	15/16	1 - 3/16	1/8
HU 09371250	15/16	1 - 1/4	5/32
HU 09371437	15/16	1 - 7/16	1/4
HU 10001187	1	1 - 3/16	3/32
HU 10001250	1	1 - 1/4	1/8
HU 10001312	1	1 - 5/16	5/32
HU 10001375	1	1 - 3/8	3/16
HU 10001500	1	1 - 1/2	1/4
HU 10621375	1 - 1/16	1 - 3/8	5/32
HU 10621562	1 - 1/16	1 - 9/16	1/4
HU 11251375	1 - 1/8	1 - 3/8	1/8
HU 11251437	1 - 1/8	1 - 7/16	5/32
HU 11251500	1 - 1/8	1 - 1/2	3/16
HU 11251625	1 - 1/8	1 - 5/8	1/4
HU 11871437	1 - 3/16	1 - 7/16	1/8

Part Number	Nominal		C/S
	A Shaft/Piston Groove Dia.	D Bore/Rod Groove Dia.	
HU 11871687	1 - 3/16	1 - 11/16	1/4
HU 12501500	1 - 1/4	1 - 1/2	1/8
HU 12501562	1 - 1/4	1 - 9/16	5/32
HU 12501625	1 - 1/4	1 - 5/8	3/16
HU 12501750	1 - 1/4	1 - 3/4	1/4
HU 13121562	1 - 5/16	1 - 9/16	1/8
HU 13121625	1 - 5/16	1 - 5/8	5/32
HU 13751625	1 - 3/8	1 - 5/8	1/8
HU 13751688	1 - 3/8	1 - 11/16	5/32
HU 13751750	1 - 3/8	1 - 3/4	3/16
HU 14371750	1 - 7/16	1 - 3/4	5/32
HU 15001750	1 - 1/2	1 - 3/4	1/8
HU 15001812	1 - 1/2	1 - 13/16	5/32
HU 15001875	1 - 1/2	1 - 7/8	3/16
HU 16251812	1 - 5/8	1 - 13/16	3/32
HU 16251875	1 - 5/8	1 - 7/8	1/8
HU 16251937	1 - 5/8	1 - 15/16	5/32
HU 16252000	1 - 5/8	2	3/16
HU 17502000	1 - 3/4	2	1/8
HU 17502062	1 - 3/4	2 - 1/16	5/32
HU 17502125	1 - 3/4	2 - 1/8	3/16
HU 18752250	1 - 7/8	2 - 1/4	3/16
HU 20002250	2	2 - 1/4	1/8
HU 20002375	2	2 - 3/8	3/16
HU 21252500	2 - 1/8	2 - 1/2	3/16
HU 22502625	2 - 1/4	2 - 5/8	3/16
HU 23752750	2 - 3/8	2 - 3/4	3/16
HU 25002875	2 - 1/2	2 - 7/8	3/16
HU 25002937	2 - 1/2	2 - 15/16	7/32
HU 25623000	2 - 9/16	3	7/32
HU 26253000	2 - 5/8	3	3/16
HU 26873125	2 - 11/16	3 - 1/8	7/32
HU 27503125	2 - 3/4	3 - 1/8	3/16
HU 27503187	2 - 3/4	3 - 3/16	7/32
HU 28123250	2 - 13/16	3 - 1/4	7/32
HU 28753250	2 - 7/8	3 - 1/4	3/16
HU 30003375	3	3 - 3/8	3/16
HU 30003437	3	3 - 7/16	7/32
HU 30623500	3 - 1/16	3 - 1/2	7/32
HU 31253500	3 - 1/8	3 - 1/2	3/16
HU 32503625	3 - 1/4	3 - 5/8	3/16
HU 33123750	3 - 5/16	3 - 3/4	7/32
HU 33753750	3 - 3/8	3 - 3/4	3/16
HU 35003875	3 - 1/2	3 - 7/8	3/16
HU 35624000	3 - 9/16	4	7/32
HU 36254000	3 - 5/8	4	3/16
HU 47505000	4 - 3/4	5	1/8
HU 62506500	6 - 1/4	6 - 1/2	1/8