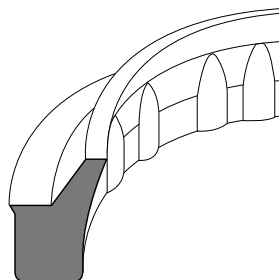


Wipers

SAP, H-38

(Metric Size)

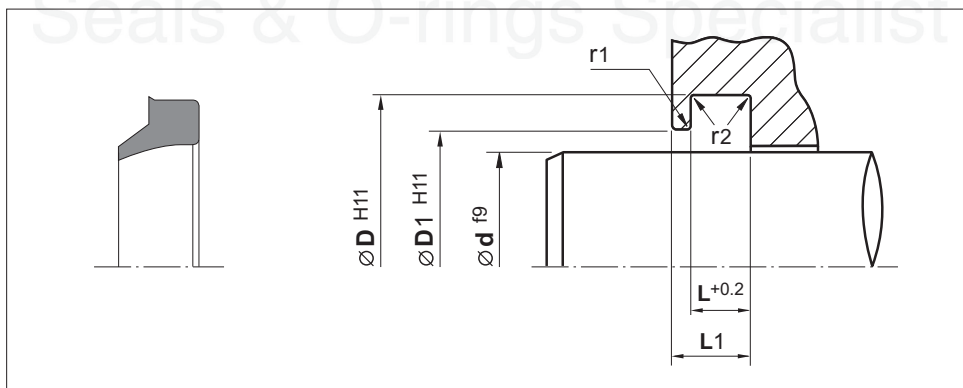


SAP, H-38

Type	Material	Temp. (°C)	Speed (m/s)
SAP	TPE	-40 +100	4
H-38	TPU	-40 +120	

- Outside lip for effective housing seal.
- Pressure relief nibs.
- Effective scraping lip.
- Wear resistant, long service life.

Installation Recommendation



Surface roughness	Ra	Rt	Radius mm.	
Sliding surface	≤ 0.3 μm	≤ 4 μm	Rod □d	r1
Surface of housing	≤ 1.8 μm	≤ 10 μm	up to 50 mm.	r2
Sides of housing	≤ 3.0 μm	≤ 16 μm	up to 90 mm.	0.4
			up to 200 mm.	0.4
			above 200 mm.	0.6
				0.8

Wiper - SAP

(Metric Size)

Rod Dia.	Groove Dia.	Groove Width.	Part Width	Bore Dia.	Reference (For order processing)		Reference (Part Number)
d	D	L	L1	D1			
18.0	24.0	5.0	6.5	21.0		H-38 018-024-5	4392000
20.0	28.0	5.0	7.0	25.5	SAP 020-028-5	H-38 020-028-5	4321900
22.0	30.0	5.0	7.0	27.5	SAP 022-030-5	H-38 022-030-5	4322000
25.0	33.0	5.0	8.0	30.5	SAP 025-033-5	H-38 025-033-5	6617700
28.0	36.0	5.0	8.0	33.5	SAP 028-036-5	H-38 028-036-5	6617800
30.0	38.0	5.0	7.0	35.5	SAP 030-038-5	H-38 030-038-5	4419200
30.0	41.2	7.5	10.0	37.0		H-38 030-041.2-7.5	4528900
32.0	40.0	5.0	8.0	37.5	SAP 032-040-5	H-38 032-040-5	6617900
35.0	43.0	5.0	-	40.5	SAP 035-043-5		
36.0	44.0	5.0	8.0	41.5	SAP 036-044-5	H-38 036-044-5	6618000
40.0	48.0	5.0	8.0	45.5	SAP 040-048-5	H-38 040-048-5	6618100
45.0	53.0	5.0	8.0	50.5	SAP 045-053-5	H-38 045-053-5	6618200
45.0	55.6	5.3	-	48.0	SAP 045-055.6-5.3		
50.0	58.0	5.0	8.0	55.5	SAP 050-058-5	H-38 050-058-5	6618300
50.0	58.6	5.3	7.0	53.0		H-38 050-058.6-5.3	4300400
50.0	60.6	5.3	7.0	53.0	SAP 050-060.6-5.3	H-38 050-060.6-5.3	4458000
55.0	63.6	5.3	-	58.0	SAP 055-063.6-5.3		
55.0	65.0	5.3	-	61.0	SAP 055-065-5.3		
55.0	65.0	6.3	-	61.0	SAP 055-065-6.3		
56.0	66.0	6.3	10.0	63.0	SAP 056-066-6.3	H-38 056-066-6.3	6618400
56.0	66.6	5.3	7.0	59.0		H-38 056-066.6-5.3	4458100
60.0	70.0	5.3	7.0	66.0	SAP 060-070-5.3	H-38 060-070-5.3	4386200
60.0	70.0	6.3	10.0	67.0	SAP 060-070-6.3	H-38 060-070-6.3	4270200
60.0	70.6	5.3	7.0	63.0		H-38 060-070.6-5.3	4456400
63.0	73.0	6.3	10.0	70.0	SAP 063-073-6.3	H-38 063-073-6.3	6618500
63.0	73.6	5.3	7.0	66.0	SAP 063-073.6-5.3	H-38 063-073.6-5.3	4283600
65.0	75.0	5.3	-	68.0	SAP 065-075-5.3		
65.0	75.0	6.3	10.0	72.0		H-38 065-075-6.3	4343800
70.0	78.0	5.0	-	75.5	SAP 070-078-5		
70.0	80.0	6.3	10.0	77.0	SAP 070-080-6.3	H-38 070-080-6.3	6618600
70.0	80.6	5.3	7.0	73.0	SAP 070-080.6-5.3	H-38 070-080.6-5.3	4454000
70.0	82.2	7.2	12.0	76.0	SAP 070-082.2-7.2	H-38 070-082.2-7.2	4243900
75.0	83.0	5.0	-	80.5	SAP 075-083-5		
75.0	83.6	5.3	7.0	78.0		H-38 075-083.6-5.3	4539500
75.0	85.0	6.3	10.0	82.0	SAP 075-085-6.3	H-38 075-085-6.3	4532500
75.0	87.2	7.2	11.0	81.0		H-38 075-087.2-7.2	4384400
80.0	90.0	6.3	10.0	87.0	SAP 080-090-6.3	H-38 080-090-6.3	6618700
80.0	91.0	7.5	10.3	85.0		H-38 080-091-7.5	4493200
80.0	92.2	7.1	12.0	86.0		H-38 080-092.2-7.1	4242800
82.6	92.2	5.3	7.1	85.7		H-38 082.6-092.2-5.3	4415500

Wiper - SAP

(Metric Size)

Rod Dia.	Groove Dia.	Groove Width.	Part Width	Bore Dia.	Reference (For order processing)		Reference (Part Number)
d	D	L	L1	D1			
85.0	93.6	5.3	7.0	88.0		H-38 085-093.6-5.3	4292100
85.0	98.0	7.5	11.5	92.0		H-38 085-098-7.5	4332800
88.0	100.2	7.1	11.0	94.0		H-38 088-100.2-7.1	4269400
90.0	100.0	6.3	10.0	97.0	SAP 090-100-6.3	H-38 090-100-6.3	6618800
90.0	102.0	7.1	11.0	96.0	SAP 090-102.2-7.1	H-38 090-102-7.1	4324500
95.0	107.0	7.1	12.0	101.0	SAP 095-107.2-7.2	H-38 095-107-7.1	6667600
100.0	110.6	5.3	7.0	104.0	SAP 100-110.6-5.3	H-38 100-110.6-5.3	4300200
100.0	112.2	7.1	12.0	106.0	SAP 100-112.2-7.1	H-38 100-112.2-7.1	4324600
100.0	115.0	9.5	14.0	110.0	SAP 100-115-9.5	H-38 100-115-9.5	6618900
101.6	116.6	9.5	14.0	111.6		H-38 101.6-116.6-9.5	6619010
105.0	113.0	5.0	7.0	110.5		H-38 105-113-5	4290300
105.0	117.2	7.1	-	111.0	SAP 105-117.2-7.1		
105.0	120.0	7.2	12.0	112.0		H-38 105-120-7.2	4539100
110.0	122.2	7.2	12.0	116.0	SAP 110-122.2-7.1	H-38 110-122.2-7.2	4459200
110.0	125.0	9.5	14.0	120.0		H-38 110-125-9.5	6619000
115.0	127.0	7.1	12.0	121.0		H-38 115-127-7.1	4324800
120.0	132.0	7.1	12.0	126.0		H-38 120-132-7.1	4352600
120.0	132.2	7.2	12.0	130.0		H-38 120-132.2-7.2	4454300
120.0	135.0	9.5	14.0	130.0		H-38 120-135-9.5	4385600
125.0	133.0	5.3	7.0	130.8		H-38 125-133-5.3	4393000
125.0	137.2	7.7	12.0	131.0		H-38 125-137.2-7.7	4233500
125.0	140.0	9.5	14.0	135.0		H-38 125-140-9.5	6619100
130.0	142.2	7.1	12.0	136.0	SAP 130-142.2-7.2	H-38 130-142.2-7.1	4304300
132.0	144.2	7.1	12.0	138.0		H-38 132-144.2-7.1	4269500
135.0	150.0	9.5	14.0	145.0	SAP 135-150-9.5	H-38 135-150-9.5	4278700
140.0	152.2	7.6	12.0	146.0		H-38 140-152.2-7.6	4324900
140.0	155.0	9.5	14.0	150.0		H-38 140-155-9.5	6619200
145.0	160.0	9.5	14.0	155.0		H-38 145-160-9.5	4560600
150.0	162.2	7.6	12.0	156.0		H-38 150-162.2-7.6	4278900
150.0	165.0	10.1	16.0	157.6		H-38 150-165-10.1	4342500
150.0	165.0	7.2	12.0	158.6		H-38 150-165-7.2	6668500
150.0	166.0	8.0	12.0	161.0		H-38 150-166-8.0	4336700
155.0	163.0	5.0	7.0	160.5		H-38 155-163-5	4290200
155.0	167.2	7.6	12.0	161.0		H-38 155-167.2-7.6	4288200
155.0	175.0	10.2	18.0	165.0		H-38 155-175-10.2	4226400
160.0	172.2	7.6	11.5	166.0		H-38 160-172.2-7.6	4405700
160.0	175.0	10.2	16.0	167.0		H-38 160-175-10.2	4454100
160.0	175.0	9.5	14.0	170.0		H-38 160-175-9.5	6619300
165.0	180.0	9.5	14.0	175.0		H-38 165-180-9.5	4537000
170.0	182.2	7.7	12.0	176.0		H-38 170-182.2-7.7	4233600

Wiper - SAP

(Metric Size)

Rod Dia.	Groove Dia.	Groove Width.	Part Width	Bore Dia.	Reference (For order processing)	Reference
d	D	L	L1	D1		
177.0	192.0	9.5	14.0	187.0	H-38 177-192-9.5	4287900
180.0	195.0	9.5	14.0	190.0	H-38 180-195-9.5	6619400
180.0	200.0	10.2	18.0	190.0	H-38 180-200-10.2	4460900
195.0	210.0	10.1	16.0	202.5	H-38 195-210-10.1	4325100
200.0	208.6	5.3	6.3	203.0	H-38 200-208.6-5.3	4391600
200.0	215.0	9.5	14.0	210.0	H-38 200-215-9.5	6619500
200.0	220.0	10.2	18.0	210.0	H-38 200-220-10.2	4387100
205.0	220.0	9.5	14.0	215.0	H-38 205-220-9.5	4560500
210.0	226.0	8.0	12.0	221.0	H-38 210-226-8.0	4336600
210.0	230.0	10.2	18.0	222.0	H-38 210-230-10.2	4325300
212.0	232.0	12.5	17.5	225.5	H-38 212-232-12.5	4293900
220.0	235.0	10.2	16.0	227.6	H-38 220-235-10.2	4325400
220.0	240.0	12.5	18.0	233.5	H-38 220-240-12.5	6619600
225.0	240.0	9.5	14.0	235.0	H-38 225-240-9.5	4287800
225.0	245.0	10.2	18.0	235.0	H-38 225-245-10.2	4325500
230.0	238.6	5.3	7.0	233.0	H-38 230-238.6-5.3	4514000
230.0	246.0	7.5	12.0	240.7	H-38 230-246-7.5	4290700
235.0	255.0	10.2	18.0	245.0	H-38 235-255-10.2	4325700
240.0	260.0	10.2	18.0	250.0	H-38 240-260-10.2	4520900
245.0	265.0	12.5	18.0	258.5	H-38 245-265-12.5	4539600
250.0	270.0	10.2	18.0	260.0	H-38 250-270-10.2	4460100
250.0	270.0	12.5	18.0	263.5	H-38 250-270-12.5	6619700
260.0	280.0	10.2	18.0	270.5	H-38 260-280-10.2	4325900
265.0	285.0	10.2	15.0	275.0	H-38 265-285-10.2	4560400
270.0	278.6	5.3	7.0	273.0	H-38 270-278.6-5.3	4391700
285.0	305.0	12.5	18.0	298.5	H-38 285-305-12.5	4537100
288.0	308.0	10.2	18.0	298.0	H-38 288-308-10.2	4265300
290.0	310.0	12.5	18.0	303.5	H-38 290-310-12.5	4467300
300.0	316.0	7.5	12.0	310.7	H-38 300-316-7.5	4290800
300.0	320.0	12.5	18.0	313.5	H-38 300-320-12.5	4525300
305.0	325.0	12.5	18.0	318.5	H-38 305-325-12.5	4473200
320.0	340.0	10.2	18.0	330.0	H-38 320-340-10.2	4454200

(Inch Size)

Rod Dia.	Groove Dia.	Groove Width.	Bore Dia.	Reference (For order processing)
d	D	L	D1	
31.75	41.28	4.75	37.97	SAP 1250-1625-0187
38.10	47.63	4.75	44.32	SAP 1500-1875-0187
44.45	53.98	4.75	50.67	SAP 1750-2125-0187
50.80	63.50	6.35	59.10	SAP 2000-2500-0250