

# **TOOL OPERATING MANUAL**

**Caterpillar O-Rings:**

**Measuring Tool, Material Application and Dash Size  
Cross Reference**

SMCS: 0000

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**O-RINGS (BY CROSS SECTION)**

DASH SIZE (AS568A)	SECTION DIAMETER (mm)	INSIDE DIAMETER (mm)	PART NUMBER	MATERIAL NAME	COLOR
-016	1.78	15.60	6V-5138	EPDM (70)	
-016	1.78	15.60	4D-2297	NITRILE (75)	
-016	1.78	15.60	8C-3086	NITRILE (90)	
-016	1.78	15.60	8L-2746	FLUOROCARBON (FKM) (75)	
-016	1.78	15.60	6V-5142	FLUOROCARBON (FKM) (90)	
	1.78	15.72	7J-9108	NITRILE (90)	
-017	1.78	17.17	9X-7383	HNBR (72)	ORANGE
-017	1.78	17.17	1S-8947	NITRILE (75)	
-017	1.78	17.17	6V-8399	NITRILE (90)	
-017	1.78	17.17	2P-2975	FLUOROCARBON (FKM) (75)	
-018	1.78	18.77	8M-8997	NITRILE (75)	
-018	1.78	18.77	8C-3087	NITRILE (90)	
-018	1.78	18.77	5P-9757	FLUOROCARBON (FKM) (75)	
	1.78	18.94	6V-9746	NITRILE (90)	
-019	1.78	20.35	6V-6580	NITRILE (90)	
-019	1.78	20.35	03-36044	FLUOROCARBON (FKM) (75)	
-019	1.78	20.35	5E-9816	FLUOROCARBON (FKM) (90)	DK GREEN
-020	1.78	21.95	030-4605	NITRILE (75)	
-020	1.78	21.95	8J-2413	NITRILE (90)	
-020	1.78	21.95	061-8341	URETHANE (90)	NATURAL
-020	1.78	21.95	5P-5599	FLUOROCARBON (FKM) (75)	
-021	1.78	23.52	8C-3098	NITRILE (75)	
-021	1.78	23.52	8C-3088	NITRILE (90)	
-021	1.78	23.52	106-9586	FLUOROCARBON (FKM) (75)	
-021	1.78	23.52	8C-3093	FLUOROCARBON (FKM) (90)	
	1.78	23.66	5K-9090	NITRILE (90)	
-022	1.78	25.12	5L-4759	NITRILE (75)	
-022	1.78	25.12	6V-9178	FLUOROCARBON (FKM) (75)	
-022	1.78	25.12	8T-9529	FLUOROCARBON (FKM) (90)	
-023	1.78	26.70	9X-7384	HNBR (72)	ORANGE
-023	1.78	26.70	077-3241	NITRILE (75)	
-023	1.78	26.70	005-8592	NITRILE (90)	
-023	1.78	26.70	033-6032	FLUOROCARBON (FKM) (75)	
-024	1.78	28.30	003-8137	NITRILE (75)	
-024	1.78	28.30	4K-4986	NITRILE (90)	
-024	1.78	28.30	5P-5600	FLUOROCARBON (FKM) (75)	
-025	1.78	29.87	6V-0894	NITRILE (75)	
-025	1.78	29.87	2Y-2347	NITRILE (90)	

**O-RINGS (BY CROSS SECTION)**

DASH SIZE (AS568A)	SECTION DIAMETER (mm)	INSIDE DIAMETER (mm)	PART NUMBER	MATERIAL NAME	COLOR
-920	3.00	37.47	2S-4078	NITRILE (90)	
-920	3.00	37.47	7L-3386	POLYACRYLIC (75) (ACM)	
-920	3.00	37.47	5P-7815	FLUOROCARBON (FKM) (75)	
	3.00	41.00	2T-2692	NITRILE (70)	
-924	3.00	43.69	8C-0562	EPDM (70)	
-924	3.00	43.69	6K-6307	NITRILE (90)	
-924	3.00	43.69	1N-6002	POLYACRYLIC (75) (ACM)	
-924	3.00	43.69	5P-7816	FLUOROCARBON (FKM) (75)	
	3.00	51.00	2T-2691	NITRILE (70)	
-928	3.00	53.09	8T-2928	EPDM (70)	
-928	3.00	53.09	9X-3978	FLUOROCARBON (FKM) (75)	
-932	3.00	59.36	030-4606	NITRILE (90)	
-932	3.00	59.36	5P-7817	FLUOROCARBON (FKM) (75)	
	3.00	79.50	3C-5546	NITRILE (75)	
	3.00	84.50	9X-4622	FLUOROCARBON (FKM) (75)	
	3.00	105.00	8T-9526	FLUOROCARBON (FKM) (75)	
	3.00	145.00	4V-2445	EPDM (50)	
	3.00	179.50	107-5665	NITRILE (75)	
	3.00	186.00	4V-2444	EPDM (50)	
	3.10	24.40	095-1657	NITRILE (75)	
	3.10	24.40	095-1696	NITRILE (90)	
	3.10	29.40	095-1658	NITRILE (75)	
	3.10	29.40	095-1698	NITRILE (90)	
	3.10	34.40	095-1700	NITRILE (90)	
	3.10	39.40	095-1701	NITRILE (90)	
	3.10	44.40	095-1703	NITRILE (90)	
	3.10	49.40	095-1662	NITRILE (75)	
	3.10	49.40	095-1704	NITRILE (90)	
	3.10	54.40	095-1663	NITRILE (75)	
	3.10	54.40	095-1705	NITRILE (90)	
	3.10	59.40	095-1706	NITRILE (90)	
	3.10	64.40	095-1707	NITRILE (90)	
	3.10	69.40	095-1708	NITRILE (90)	
	3.10	74.40	095-1709	NITRILE (90)	
	3.10	79.40	095-1710	NITRILE (90)	
	3.10	84.40	8T-3338	NITRILE (75)	
	3.10	84.40	095-1711	NITRILE (90)	
	3.10	89.40	095-1712	NITRILE (90)	

**O-RINGS (BY CROSS SECTION)**

DASH SIZE (AS568A)	SECTION DIAMETER (mm)	INSIDE DIAMETER (mm)	PART NUMBER	MATERIAL NAME	COLOR
	3.53	285.80	4D-5497	NITRILE (90)	
-277	3.53	291.69	5P-2545	NITRILE (75)	
-277	3.53	291.69	9N-1520	SILICONE (70)	
	3.53	298.45	9X-7686	NITRILE (75)	
-278	3.53	304.39	2D-6533	NITRILE (75)	
	3.53	307.57	5P-9035	FLUOROCARBON (FKM) (75)	
	3.53	316.87	5P-2861	NITRILE (75)	
	3.53	317.91	6V-2406	SILICONE (70)	
	3.53	323.44	5J-1086	NITRILE (90)	
-279	3.53	329.79	4D-6695	NITRILE (75)	
-279	3.53	329.79	9N-1552	SILICONE (70)	
-280	3.53	355.19	4S-5879	NITRILE (75)	
-280	3.53	355.19	9N-1562	SILICONE (70)	
-280	3.53	355.19	5D-5959	FLUOROCARBON (FKM) (75)	
	3.53	367.89	6D-0692	NITRILE (75)	
-281	3.53	380.59	4D-1577	NITRILE (75)	
	3.53	385.34	8D-2714	NITRILE (75)	
	3.53	385.34	6V-5058	FLUOROCARBON (FKM) (75)	
	3.53	399.80	5P-9147	NITRILE (75)	
-282	3.53	405.26	7S-8561	NITRILE (75)	
	3.53	412.34	2P-3628	NITRILE (75)	
-283	3.53	430.66	4S-5924	NITRILE (75)	
	3.53	454.91	7X-1548	NITRILE (75)	
	3.53	470.00	8C-5240	NITRILE (75)	
	3.53	481.46	2D-6507	NITRILE (75)	
	3.53	523.47	7D-7519	NITRILE (75)	
	3.53	535.50	6V-6204	NITRILE (75)	
	3.53	552.04	4D-0449	NITRILE (75)	
	3.53	570.00	9X-7550	SILICONE (70)	
	3.53	576.48	7Y-0640	NITRILE (75)	
	3.53	606.02	7D-5868	NITRILE (75)	
	3.53	622.35	7D-5863	NITRILE (80)	
	3.53	631.82	7D-7228	NITRILE (80)	
	3.53	698.09	6D-1355	NITRILE (75)	
	3.53	749.00	5P-4076	NITRILE (75)	
	3.96	11.13	4F-5675	NITRILE (75)	
	3.96	11.13	1H-3748	SILICONE (70)	
	3.96	14.27	3H-2387	SILICONE (70)	

**O-RINGS (BY CROSS SECTION)**

DASH SIZE (AS568A)	SECTION DIAMETER (mm)	INSIDE DIAMETER (mm)	PART NUMBER	MATERIAL NAME	COLOR
	6.22	207.15	5N-7644	NITRILE (55) (TORIC RING)	
	6.35	28.58	6F-6600	NITRILE (75)	
	6.35	40.49	1A-2298	NITRILE (75)	
	6.35	53.98	6L-7816	EPDM (70)	
	6.35	53.98	6B-7021	NITRILE (60)	
	6.35	60.96	7F-9134	NITRILE (75)	
	6.48	139.70	7B-2123	NITRILE (75)	
	6.99	12.70	3B-7363	NITRILE (75)	
	6.99	31.12	8C-5209	EPDM (70)	
	6.99	31.12	4H-1860	NITRILE (75)	
	6.99	31.12	6L-4905	SILICONE (70)	
	6.99	37.46	7H-9959	NITRILE (75)	
	6.99	42.80	8S-0530	NITRILE (75)	
	6.99	46.99	1M-3548	NITRILE (75)	
	6.99	56.52	7D-1195	NITRILE (75)	
	6.99	56.52	4M-0142	SILICONE (70)	
	6.99	56.52	5P-6861	FLUOROCARBON (FKM) (75)	
	6.99	61.60	5P-8432	NITRILE (75)	
	6.99	64.26	1T-0136	NITRILE (75)	
	6.99	69.22	1M-0556	NITRILE (75)	
	6.99	69.22	4M-0141	SILICONE (70)	
	6.99	75.56	5H-2824	NITRILE (75)	
	6.99	75.56	5H-9205	SILICONE (70)	
	6.99	81.00	4L-8337	SILICONE (70)	
	6.99	81.92	7L-7459	EPDM (70)	
	6.99	81.92	5P-5700	FLUOROCARBON (FKM) (75)	
	6.99	85.09	2A-3676	NITRILE (75)	
	6.99	88.26	6K-9149	NITRILE (75)	
	6.99	88.26	5S-1188	SILICONE (70)	
	6.99	91.44	5S-0982	NITRILE (75)	
	6.99	94.61	5H-7704	SILICONE (70)	
	6.99	94.62	7L-7460	EPDM (70)	
	6.99	94.62	6V-3917	FLUOROCARBON (FKM) (75)	
	6.99	100.96	5H-1039	SILICONE (70)	
	6.99	100.96	6V-2695	FLUOROCARBON (FKM) (75)	
	6.99	104.14	8H-7469	SILICONE (70)	
	6.99	107.31	6H-1871	SILICONE (70)	
	6.99	107.31	6V-5166	FLUOROCARBON (FKM) (75)	

ATTACHMENT B-5

*Nitrile (55) (Toric Ring) - 55 Durometer*

- **Temperature Range (Continuous):**
  - 20° to 105°C (-4° to 221°F)
- **Typical Color:** Black
- **Compatible With:**
  - Petroleum base lubricants
  - Water, water base engine coolants
  - Silicone oils and greases
  - Ethylene Glycol
  - Alpha-Olefin base synthetic lubricants

- **NOT Compatible With:**
  - Ketones
  - Automotive and aircraft brake fluids
  - Phosphate ester fluids
  - Strong acids
  - High levels of ozone
  - UV light
- **Typical Applications:**
  - Duo Cone seal toric ring

*Nitrile (60) (Toric Ring) - 60 Durometer*

- **Temperature Range (Continuous):**
  - 17° to 93°C (0° to 200°F)
- **Typical Color:** Black
- **Compatible With:**
  - Petroleum base lubricants
  - Water, water base engine coolants
  - Silicone oils and greases
  - Ethylene Glycol
  - Alpha-Olefin base synthetic lubricants

- **NOT Compatible With:**
  - Ketones
  - Automotive and aircraft brake fluids
  - Phosphate ester fluids
  - Strong acids
  - High levels of ozone
  - UV light
- **Typical Applications:**
  - Duo Cone seal toric ring

*Nitrile (60) - 60 Durometer*

- **Temperature Range (Continuous):**
  - 40° to 107°C (-40° to 225°F)
- **Typical Color:** Black
- **Compatible With:**
  - Petroleum base lubricants
  - Water, water base engine coolants
  - Silicone oils and greases
  - Ethylene Glycol
  - Alpha-Olefin base synthetic lubricants
- **NOT Compatible With:**
  - Ketones
  - Automotive and aircraft brake fluids
  - Phosphate ester fluids
  - Strong acids
  - High levels of ozone
  - UV light
- **Typical Applications:**
  - Hydraulic fluids
  - Ambient temperature fuel handling
  - Radiator thermostat seals
  - Power steering seals
  - High and low pressure LPG service

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