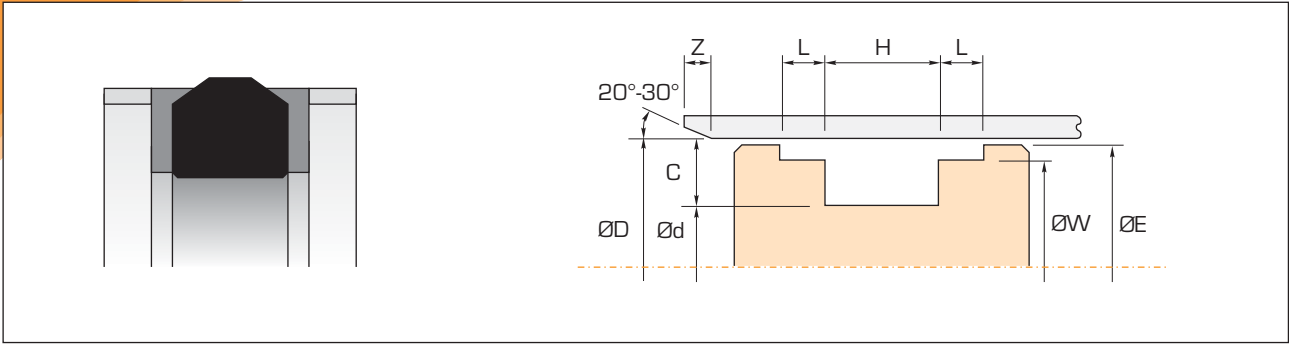




# DM/T50,53,68 & D/T53



- Category**
- Seal, Double Acting Piston
- Construction**
- Central NBR sealing element with two contoured pressure activated nylon 66 back up washers and two split acetal wear rings
- Housing**
- Stepped groove in one piece piston
- Duty**
- Medium
- Features**
- Pressure activated back up washers minimise extrusion
  - Wear rings eliminate metal to metal contact
  - Positive seal at low pressure
- Comments**
- Integrated seal and wear ring design
  - Back up washers and wear rings are split for easy installation on a one piece piston
  - Hallite Type-81 seals are replacing Type-53 seals on some OEM sizes
- Manufacturer**
- Hallite
- Size Range**
- Metric & imperial

**Metric Specifications**

<b>Operating Conditions</b>	Maximum Speed:	0.5 m/sec
	Temperature Range:	-30°C ~ 100°C
	Maximum Pressure, T50, T58:	350 bar
	T53:	500 bar

<b>Surface Finish</b>	Dynamic Sealing Face:	0.1 ~ 0.4 µmRa
	Static Sealing Face:	1.6 µmRa max
	Other Faces:	3.2 µmRa max

**Chamfers**

Minimum Z = C x 0.50	where C = (ØD - Ød) ÷ 2
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**Imperial Specifications**

<b>Operating Conditions</b>	Maximum Speed:	1.5 ft/sec
	Temperature Range:	-22°F ~ 212°F
	Maximum Pressure, T50, T58:	5000 psi
	T53:	7500 psi

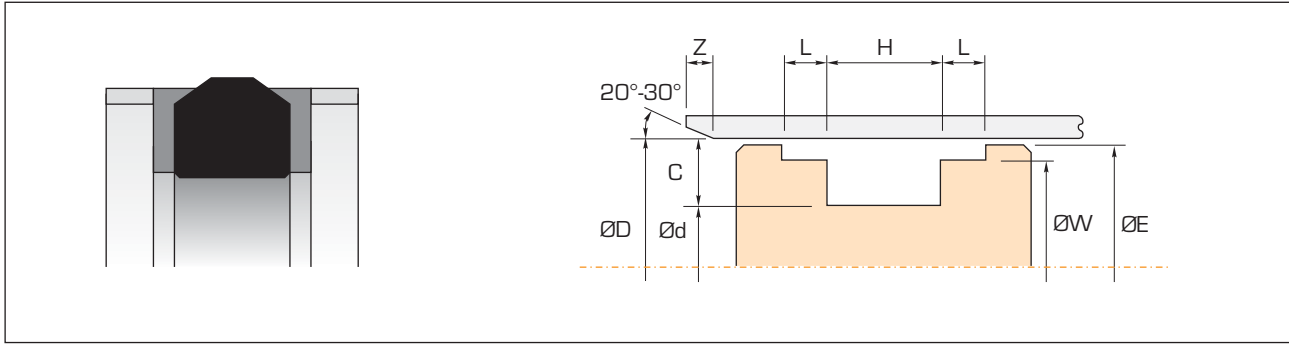
<b>Surface Finish</b>	Dynamic Sealing Face:	4 ~ 16 µinCLA
	Static Sealing Face:	63 µinCLA max
	Other Faces:	125 µinCLA max

**Chamfers**

Minimum Z = C x 0.50	where C = (ØD - Ød) ÷ 2
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# DM/T50,53,68 & D/T53



## Metric Sizes

Part No.	ØD	Ød	H	ØW	L	ØE
<i>Tolerances</i>	<i>H10</i>	<i>h9</i>	<i>+0.25-0</i>	<i>h9</i>	<i>+0.10 0</i>	<i>h11</i>
DM2515-12.5-T68	25.00	15.00	12.60	22.00	4.00	24.00
DM2517-8-T53	25.00	17.00	8.15	22.10	4.00	24.00
DM2517-10-T50	25.00	17.00	10.10	22.00	4.00	24.00
DM3222-10-T53	32.00	22.00	10.15	28.50	5.00	31.00
DM3222-12.5-T68	32.00	22.00	12.60	29.00	4.00	31.00
DM3224-10-T50	32.00	24.00	10.10	29.00	4.00	31.00
DM4030-10-T53	40.00	30.00	10.15	36.50	5.00	39.00
DM4030-12.5-T68	40.00	30.00	12.60	37.00	4.00	39.00
DM4032-10-T50	40.00	32.00	10.10	37.00	4.00	39.00
DM4535-16.4-T53	45.00	35.00	16.55	40.40	6.35	44.00
DM5034-18-T53	50.00	34.00	18.15	45.40	6.35	49.00
DM5035-20-T68	50.00	35.00	20.10	46.00	5.00	48.50
DM5040-12.5-T50	50.00	40.00	12.60	47.00	4.00	49.00
DM5539-18-T53	55.00	39.00	18.15	50.40	6.35	54.00
DM6044-18-T53	60.00	44.00	18.15	55.40	6.35	58.50
DM6347-19-T53	63.00	47.00	19.15	58.40	6.35	61.50
DM6348-20-T68	63.00	48.00	20.10	59.00	5.00	61.50
DM6353-12.5-T50	63.00	53.00	12.60	60.00	4.00	62.00
DM6550-18-T53	65.00	50.00	18.15	60.40	6.35	63.50
DM7050-22-T53	70.00	50.00	22.15	64.20	6.35	68.00
DM7555-22-T53	75.00	55.00	22.15	69.20	6.35	73.00
DM8060-22-T53	80.00	60.00	22.15	74.20	6.35	78.00
DM8060-25-T68	80.00	60.00	25.10	75.00	6.30	78.00
DM8065-20-T50	80.00	65.00	20.10	76.00	5.00	78.50
DM8565-22-T53	85.00	65.00	22.15	79.20	6.35	83.00
DM9070-22-T53	90.00	70.00	22.15	84.20	6.35	88.00
DM9575-22-T53	95.00	75.00	22.15	89.20	6.35	93.00
DM10075-22-T53	100.00	75.00	22.15	93.20	6.35	98.00
DM10080-25-T68	100.00	80.00	25.10	95.00	6.30	98.00
DM10085-20-T50	100.00	85.00	20.10	96.00	5.00	98.50
DM10580-22-T53	105.00	80.00	22.15	98.10	6.35	103.00
DM11085-22-T53	110.00	85.00	22.15	103.10	6.35	108.00
DM11590-22-T53	115.00	90.00	22.15	108.10	6.35	113.00
DM12095-22-T53	120.00	95.00	22.15	113.10	6.35	118.00
DM125100-25-T53S	125.00	100.00	25.15	118.10	6.35	123.00
DM125105-25-T50	125.00	105.00	25.10	120.00	6.30	123.00
DM130105-25-T53M	130.00	105.00	25.15	122.60	9.52	128.00

## Metric Sizes (cont'd)

Part No.	ØD	Ød	H	ØW	L	ØE
DM135110-25-T53M	135.00	110.00	25.15	127.60	9.52	133.00
DM135110-25-T53L	135.00	110.00	25.15	128.00	12.70	133.00
DM140115-25-T53S	140.00	115.00	25.15	132.60	6.35	138.00
DM140115-25-T53M	140.00	115.00	25.15	132.60	9.52	138.00
DM140120-25-T50	140.00	120.00	25.10	135.00	6.30	138.00
DM145120-25-T53M	145.00	120.00	25.15	137.60	9.52	143.00
DM150125-25-T53M	150.00	125.00	25.15	142.60	9.52	148.00
DM150125-25-T53L	150.00	125.00	25.15	143.00	12.70	148.00
DM155130-25-T53M	155.00	130.00	25.15	147.60	9.52	153.00
DM160135-25-T53M	160.00	135.00	25.15	152.60	9.52	158.00
DM160140-25-T50	160.00	140.00	25.10	155.00	6.30	158.00
DM165140-25-T53L	165.00	140.00	25.15	158.00	12.70	163.00
DM170145-25-T53L	170.00	145.00	25.15	161.70	12.70	168.00
DM180155-25-T53L	180.00	155.00	25.15	171.70	12.70	178.00
DM190165-25-T53L	190.00	165.00	25.15	181.70	12.70	188.00
DM195170-25-T53L	195.00	170.00	25.15	186.70	12.70	193.00
DM200170-36-T68	200.00	170.00	36.10	192.00	12.50	197.00
DM200175-25-T53L	200.00	175.00	25.15	191.60	12.70	198.00
DM250220-36-T68	250.00	220.00	36.10	242.00	12.50	247.00

## Imperial Sizes

Part No.	ØD	Ød	H	ØW	L	ØE
<i>Tolerances</i>	<i>H10</i>	<i>h9</i>	<i>+0.010-0</i>	<i>h9</i>	<i>+0.004-0</i>	<i>h11</i>
D200137-075-T53	2.000	1.375	0.755	1.821	0.250	1.950
D225162-750-T53	2.250	1.625	0.755	2.071	0.250	2.200
D250187-075-T53	2.500	1.875	0.755	2.321	0.250	2.450
D275200-093-T53	2.750	2.000	0.942	2.524	0.250	2.690
D300225-093-T53	3.000	2.250	0.942	2.774	0.250	2.940
D325250-093-T53	3.250	2.500	0.942	3.023	0.250	3.190
D350275-093-T53	3.500	2.750	0.942	3.274	0.250	3.440
D400325-093-T53	4.000	3.250	0.942	3.773	0.250	3.940
D425350-093-T53	4.250	3.500	0.942	4.024	0.250	4.187
D450350-125-T53	4.500	3.500	1.255	4.232	0.250	4.428
D500400-125-T53	5.000	4.000	1.255	4.712	0.375	4.910
D550450-125-T53	5.500	4.500	1.255	5.213	0.375	5.410
D600500-125-T53	6.000	5.000	1.255	5.713	0.375	5.910

