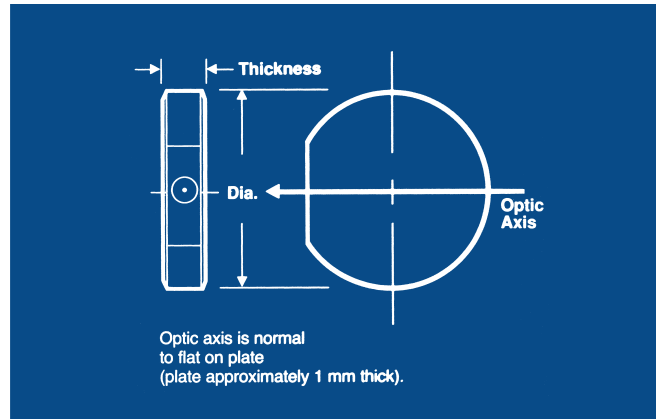


# Multiple Order Waveplates

## Specifications:

Material ..... Optical grade crystal quartz  
 Parallelism ..... <0.5 arc seconds  
 Diameter Tolerance ..... +0.0, -0.13mm  
 Surface Quality ..... 10/5  
 Retardation Tolerance .....  $\lambda/200$  -  $\lambda/600$   
 Transmitted Wavefront Distortion .....  $\lambda/10$  @ 632.8nm  
 Clear Aperture ..... Central 90%

To order a waveplate, construct a part number using the codes for the desired retardation, part diameter and wavelength listed in the tables below. To order a narrowband AR coated waveplate, append -2000 to the product number. Performance specifications for this coating can be found on page 51.



In addition to these standard parts, VLOC can produce a wide variety of custom products. Please contact our sales engineers for assistance with your custom requirement.

Part Number: WM   -  -   
**Retardation    Diameter            Wavelength            AR Coating**

Retardation	
Quarter-wave	Q
Half-wave	H

Diameter		
mm	(inches)	
10.0	0.394	100
12.7	0.500	127
15.0	0.591	150
20.0	0.787	200
25.4	1.000	254
30.0	1.181	300
38.1	1.500	381
50.0	1.969	500
50.8	2.000	508

Wavelength		
nm		
248.0	0248	
266.0	0266	
308.0	0308	
354.7	0355	
441.6	0442	
457.9	0458	
488.0	0488	
514.5	0514	
523.0	0523	
532.0	0532	
632.8	0633	
694.3	0694	
750.0	0750	
780.0	0780	
790.0	0790	
800.0	0800	
810.0	0810	
820.0	0820	
830.0	0830	
850.0	0850	
860.0	0860	
946.0	0946	
986.0	0986	
1047	1047	
1053	1053	
1054	1054	
1064	1064	
1319	1319	
1550	1550	

**Example:** A 10mm diameter multiple order quarter-wave plate at 532nm with a single wavelength AR coating would be part number: **WMQ100-0532-2000**