

## 09 VM - REELS

Due to a structured modular principle, our VM/VMV/VMZ reels with diameters from 355–800 mm allow the greatest possible variety of dimension variants and application possibilities as dispatch or process reels.

### REEL DESIGNATIONS

Reel designations consist of the series description (VM or VMV, VMZ), the flange diameter, and the total outer width of the reels. We also recommend specification of the barrel diameter (d2) and the winding width (L2).

### OUTER WIDTH

The outer width of the reels is normally the winding width (L2) plus 2x the flange thickness (S). If desired, however, in conjunction with smaller central bores hub extensions can also be supplied, which then additionally increase the overall width of the reels.

### CENTRAL BORES

The reels have a standard central bore of 127 mm (5 inch) in diameter. Other diameters can also be supplied by means of additional inserts. For various reasons, it has proven to be best to use bore dimensions which are already used in the relevant standards, e.g. 16, 22, 36, 56, 76.4 (3 inch) and 80 mm.

### DRIVES

The reels are not fitted with drives as standard. A drive device could engage between the ribs of the flanges, however, this could cause problems with modifications in design and is therefore not recommended. However, reels can also be fitted with plastic or steel pins as drives.

### TOLERANCES

All dimensions, weights and loads stated are approximate values; tolerances and deviations which are customary for the industry remain reserved.



## MATERIAL

Reels in the VM series are made of anthracite coloured polystyrene structural foam (PS TSG). This material has a somewhat streaky surface due to the processing technique. Reels in the VMV- and VMZ series are made of anthracite coloured solid ABS. The properties of the other materials can be found in our material data sheets.

## WINDING WIDTHS

The winding widths given in the table are the most cost-effective. Smaller and larger winding widths can also be supplied. Smaller widths are achieved by shortening the barrel.

Designation	Flange Ø	Barrel Ø	Central bore Ø	Width	Winding width	Flange thickness	Winding-volume	Central bore Ø tapered part	Drive-hole/pin	Drive-distance
	d1 [mm]	d2 [mm]	d3 [mm]	L1 [mm]	L2 [mm]	S [mm]	V [cm³]	d4 [mm]	d5 [mm]	E1 [mm]
Reel VM 355/127-314	355	180	16 - 127	314	50 - 280	17	3677 - 20589	143.5		

Designation	Flange Ø		Barrel Ø		Central bore Ø		Width	Winding width		Flange thickness	Winding-volume	Central bore Ø tapered part		Drive-hole/pin	Drive-distance
	d1 [mm]	d2 [mm]	d3 [mm]	L1 [mm]	L2 [mm]	S [mm]		V [cm³]	d4 [mm]			d5 [mm]	E1 [mm]		
Reel VM 355/127-344	355	224	16 - 127	344	50 - 310	17	2979 - 18467	143.5							
Reel VMV 355/127-224	355	224	16 - 127	224	50 - 160	32	2979 - 9531	143.5							
Reel VM 400/127-286	400	160	16 - 127	286	50 - 250	18	5278 - 26389	143.5							
Reel VM 400/127-316	400	180	16 - 127	316	50 - 280	18	5011 - 28061	143.5							
Reel VM 400/127-321	400	200	16 - 127	321	50 - 285	18	4712 - 26861	143.5							
Reel VM 400/127-355	400	250	16 - 127	355	50 - 315	20	3829 - 24122	143.5							
Reel VM 400/127-415	400	280	16 - 127	415	50 - 375	20	3204 - 24033	143.5							
Reel VM 400/127-416	400	315	16 - 127	416	50 - 425	18	2387 - 20286	143.5							
Reel VMV 400/127-395	400	250	16 - 127	395	50 - 315	40	3829 - 24122	143.5							
Reel VM 450/127-316	450	180	16 - 127	316	50 - 280	18	6680 - 37407	143.5							
Reel VM 450/127-321	450	200	16 - 127	321	50 - 285	18	6381 - 36374	143.5							
Reel VM 450/127-346	450	224	16 - 127	346	50 - 310	18	5982 - 37087	143.5							
Reel VM 500/127-325	500	200	16 - 127	325	50 - 285	20	8247 - 47006	143.5							
Reel VM 500/127-355	500	250	16 - 127	355	50 - 315	20	7363 - 46388	143.5							
Reel VM 500/127-420	500	315	16 - 127	420	50 - 425	20	5921 - 50328	143.5							
Reel VMV 500/127-470	500	315	16 - 127	470	50 - 425	45	5921 - 50328	143.5							
Reel VM 560/127-380	560	355	16 - 127	380	50 - 425	25	7366 - 62611	143.5							
Reel VM 560/127-425	560	280	16 - 127	425	50 - 375	25	9236 - 69272	143.5							
Reel VMV 560/127-480	560	315	16 - 127	480	50 - 425	50	8418 - 71557	143.5							
Reel VMZ 560/127-406	560	355	16 - 127	406	50 - 425	38	7366 - 62611	143.5							
Reel VM 600/127-365	600	250	16 - 127	365	50 - 315	25	11682 - 73601	143.5				1x22	95		
Reel VM 600/127-430	600	315	16 - 127	430	50 - 425	25	10240 - 87045	143.5				1x22	95		
Reel VM 610/127-430	610	315	16 - 127	430	50 - 425	25	10716 - 91084	143.5							
Reel VM 610/127-610	610	400	16 - 127	610	50 - 560	25	8329 - 93286	143.5							
Reel VM 630/127-430	630	315	16 - 127	430	50 - 425	25	11690 - 99362	143.5				1x22	95		
Reel VM 630/127-610	630	500	16 - 127	610	50 - 560	25	5769 - 64610	143.5							
Reel VM 630/127-610	630	400	16 - 127	610	50 - 560	25	9303 - 104194	143.5							
Reel VMV 630/127-660	630	400	16 - 127	660	50 - 560	50	9303 - 104194	143.5							
Reel VM 710/127-385	710	250	16 - 127	385	50 - 315	35	17342 - 109252	143.5							
Reel VM 710/127-630	710	500	16 - 127	630	50 - 560	35	9978 - 111759	143.5							
Reel VM 710/127-630	710	400	16 - 127	630	50 - 560	35	13513 - 151343	143.5							
Reel VMV 710/127-660	710	500	16 - 127	660	60 - 560	50	11974 - 111759	143.5				2x36	100		
Reel VMV 750/127-660	750	400	16 - 127	660	60 - 560	50	18967 - 177028	143.5				2x36	100		
Reel VM 800/127-630	800	400	16 - 127	630	50 - 560	35	18850 - 211115	143.5							
Reel VMV 800/127-680	800	500	16 - 127	680	60 - 560	60	18378 - 171531	143.5							

## TECHNICAL DRAWING

### Spools

