

# STOCK FINISHED BORE MVP® SHEAVES FOR "A" and "B" BELTS

U. S. Patent No. 5,304,098

DYNAMICALLY BALANCED

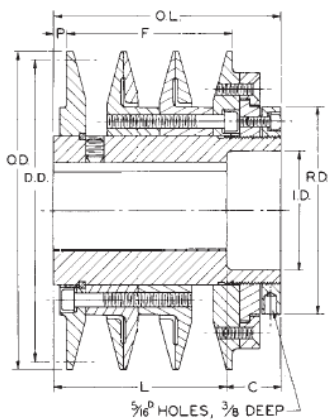


Table No. 1

"L" and "C" Dimensions

| No. Grooves | Max Datum                    | BORE |        |        |        |        |        |        |        |        |        |         |          |
|-------------|------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|----------|
|             |                              | 7/8" |        | 1 1/8" |        | 1 3/8" |        | 1 5/8" |        | 1 7/8" |        | 2 1/8"  |          |
|             |                              | L    | C      | L      | C      | L      | C      | L      | C      | L      | C      | L       | C        |
| 2           | 4.9"                         | 2"   | 1 5/8" | 2 1/2" | 1 1/8" | 3 1/8" | 1 1/2" | 3 5/8" | 0      | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9           | —    | —      | 2 1/2" | 1 1/8" | 3 1/8" | 1 1/2" | 3 5/8" | 0      | —      | —      | —       | —        |
|             | 4.9                          | —    | —      | 2 1/2" | 2 1/4" | 3 1/8" | 1 5/8" | 3 3/4" | 1      | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | 2 1/2" | 2 1/4" | 3 1/8" | 1 5/8" | 3 3/4" | 1      | 4 3/8" | 3/8"   | —       | —        |
| 3           | 4.9                          | —    | —      | 2 1/2" | 3 3/8" | 3 1/8" | 2 3/4" | 3 3/4" | 2 1/8" | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | 2 1/2" | 3 3/8" | 3 1/8" | 2 3/4" | 3 3/4" | 2 1/8" | 4 3/8" | 1 1/2" | —       | —        |
|             | 4.9                          | —    | —      | —      | —      | 3 1/8" | 3 7/8" | 3 3/4" | 3 1/4" | 4 3/8" | 2 5/8" | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | 3 1/8" | 3 7/8" | 3 3/4" | 3 1/4" | 4 3/8" | 2 5/8" | 4 5/16" | 1 9/16"  |
| 4           | 4.9                          | —    | —      | —      | —      | 3 1/8" | 3 7/8" | 3 3/4" | 3 1/4" | 4 3/8" | 2 5/8" | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | 3 1/8" | 3 7/8" | 3 3/4" | 3 1/4" | 4 3/8" | 2 5/8" | 4 5/16" | 2 11/16" |
|             | 4.9                          | —    | —      | —      | —      | 3 1/2" | 4 5/8" | 3 3/4" | 4 3/8" | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | 3 1/2" | 4 5/8" | 3 3/4" | 4 3/8" | 3 3/4" | —      | —       | —        |
| 5           | 4.9                          | —    | —      | —      | —      | 3 1/2" | 4 5/8" | 3 3/4" | 4 3/8" | 3 3/4" | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | 3 1/2" | 4 5/8" | 3 3/4" | 4 3/8" | 3 3/4" | —      | —       | —        |
|             | 4.9                          | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |
| 6           | 4.9                          | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |
|             | 4.9                          | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |
|             | 5.4, 5.9, 6.4, 6.9, 7.4, 8.4 | —    | —      | —      | —      | —      | —      | —      | —      | —      | —      | —       | —        |

Dimensions shown above are for Sheaves with Number of Grooves, Maximum D.D. and Bore indicated; for example, a 2MVP45B59 x 1 3/8" has a 3 1/8" "L" Dimension and a 1/2" "C" Dimension.

## Standard Keyseats

Table No. 3

| Bore Range    | Keyseat       |
|---------------|---------------|
| 7/8"          | 3/16" x 3/32" |
| 1 1/8"        | 1/4 x 1/8     |
| 1 3/8"        | 5/16 x 5/32   |
| 1 5/8"        | 3/8 x 3/16    |
| 1 7/8, 2 1/8" | 1/2 x 1/4     |

Browning Finished Bore MVP® Sheaves are furnished with standard keyseats and two hollow head setscrews. Datum Diameter Is Infinitely adjustable within the datum range, .233" change per turn of the adjusting ring.

# STOCK BUSHED TYPE MVP® SHEAVES FOR "A" and "B" BELTS

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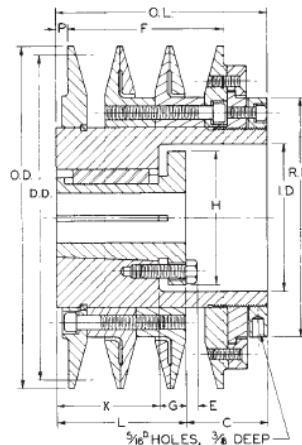


Table No. 1

Specifications

| DIAMETERS   |             |          |         | PART NUMBER |            |          | DIMENSIONS |          |          |          |          |       |      |          |      |      |      | Wt. Less Bush. |
|-------------|-------------|----------|---------|-------------|------------|----------|------------|----------|----------|----------|----------|-------|------|----------|------|------|------|----------------|
| Datum Range |             | Out-side | In-side | Ring (R.D.) | Sheave     | Bush-ing | O.L.       | F        |          | L        | C        | H     | G    | X        | P    | E    |      |                |
| " A " Belts | " B " Belts |          |         |             |            |          |            | Max.     | Min.     |          |          |       |      |          |      |      |      |                |
| 2 GROOVES   |             |          |         |             |            |          |            |          |          |          |          |       |      |          |      |      |      |                |
| 5.9" - 7.0" | 6.0" - 7.4" | 7.68"    | 3 5/16" | 5 3/8"      | 2MVP60B74P | P2       | 3 5/8"     | 2 5/16"  | 1 15/16" | 2 15/16" | 1 1/16"  | 3"    | 5/8" | 2 5/16"  | 1/4" | 1/4" | 23.5 |                |
| 6.9 - 8.0   | 7.0 - 8.4   | 8.68     | 3 5/16  | 5 3/8       | 2MVP70B84P | P2       | 3 5/8      | 2 5/16   | 1 15/16  | 2 15/16  | 1 1/16   | 3     | 5/8  | 2 5/16   | 1/4  | 1/4  | 28.1 |                |
| 7.9 - 9.0   | 8.0 - 9.4   | 9.68     | 4 7/16  | 6 1/2       | 2MVP80B94Q | Q2       | 3 5/8      | 2 5/16   | 1 15/16  | 3 1/2    | 1/8      | 4 1/8 | 3/4  | 2 3/4    | 1/4  | 9/32 | 36.1 |                |
| 3 GROOVES   |             |          |         |             |            |          |            |          |          |          |          |       |      |          |      |      |      |                |
| 5.9" - 7.0" | 6.0" - 7.4" | 7.68"    | 3 5/16" | 5 3/8"      | 3MVP60B74P | P2       | 4 3/4"     | 3 7/16"  | 3 1/16"  | 2 15/16" | 1 13/16" | 3"    | 5/8" | 2 5/16"  | 1/4" | 1/4" | 29.5 |                |
| 6.9 - 8.0   | 7.0 - 8.4   | 8.68     | 3 5/16  | 5 3/8       | 3MVP70B84P | P2       | 4 3/4      | 3 7/16   | 3 1/16   | 2 15/16  | 1 13/16  | 3     | 5/8  | 2 5/16   | 1/4  | 1/4  | 35.9 |                |
| 7.9 - 9.0   | 8.0 - 9.4   | 9.68     | 4 7/16  | 6 1/2       | 3MVP80B94Q | Q2       | 4 3/4      | 3 7/16   | 3 1/16   | 3 1/2    | 1 1/4    | 4 1/8 | 3/4  | 2 3/4    | 1/4  | 9/32 | 45.5 |                |
| 4 GROOVES   |             |          |         |             |            |          |            |          |          |          |          |       |      |          |      |      |      |                |
| 5.9" - 7.0" | 6.0" - 7.4" | 7.68"    | 3 5/16" | 5 3/8"      | 4MVP60B74P | P3       | 5 7/8"     | 4 9/16"  | 4 3/16"  | 4 7/16"  | 1 7/16"  | 3"    | 5/8" | 3 13/16" | 1/4" | 1/4" | 37.8 |                |
| 6.9 - 8.0   | 7.0 - 8.4   | 8.68     | 3 5/16  | 5 3/8       | 4MVP70B84P | P3       | 5 7/8      | 4 9/16   | 4 3/16   | 4 7/16   | 1 7/16   | 3     | 5/8  | 3 13/16  | 1/4  | 1/4  | 46.4 |                |
| 7.9 - 9.0   | 8.0 - 9.4   | 9.68     | 4 7/16  | 6 1/2       | 4MVP80B94Q | Q2       | 5 7/8      | 4 9/16   | 4 3/16   | 3 1/2    | 2 3/8    | 4 1/8 | 3/4  | 2 3/4    | 1/4  | 9/32 | 54.5 |                |
| 5 GROOVES   |             |          |         |             |            |          |            |          |          |          |          |       |      |          |      |      |      |                |
| 5.9" - 7.0" | 6.0" - 7.4" | 7.68"    | 3 5/16" | 5 3/8"      | 5MVP60B74P | P3       | 7"         | 5 11/16" | 5 5/16"  | 4 7/16"  | 2 9/16"  | 3"    | 5/8" | 3 13/16" | 1/4" | 1/4" | 42.6 |                |
| 6.9 - 8.0   | 7.0 - 8.4   | 8.68     | 3 5/16  | 5 3/8       | 5MVP70B84P | P3       | 7          | 5 11/16  | 5 5/16   | 4 7/16   | 2 9/16   | 3     | 5/8  | 3 13/16  | 1/4  | 1/4  | 52.5 |                |
| 7.9 - 9.0   | 8.0 - 9.4   | 9.68     | 4 7/16  | 6 1/2       | 5MVP80B94Q | Q3       | 7          | 5 11/16  | 5 5/16   | 5        | 2        | 4 1/8 | 3/4  | 4 1/4    | 1/4  | 9/32 | 66.5 |                |
| 6 GROOVES   |             |          |         |             |            |          |            |          |          |          |          |       |      |          |      |      |      |                |
| 5.9" - 7.0" | 6.0" - 7.4" | 7.68"    | 3 5/16" | 5 3/8"      | 6MVP60B74P | P3       | 8 1/8"     | 6 13/16" | 6 7/16"  | 4 7/16"  | 3 11/16" | 3"    | 5/8" | 3 13/16" | 1/4" | 1/4" | 50.0 |                |
| 6.9 - 8.0   | 7.0 - 8.4   | 8.68     | 3 5/16  | 5 3/8       | 6MVP70B84P | P3       | 8 1/8      | 6 13/16  | 6 7/16   | 4 7/16   | 3 11/16  | 3     | 5/8  | 3 13/16  | 1/4  | 1/4  | 61.0 |                |
| 7.9 - 9.0   | 8.0 - 9.4   | 9.68     | 4 7/16  | 6 1/2       | 6MVP80B94Q | Q3       | 8 1/8      | 6 13/16  | 6 7/16   | 5        | 3 1/8    | 4 1/8 | 3/4  | 4 1/4    | 1/4  | 9/32 | 76.5 |                |

Datum diameter is infinitely adjustable within the range, .233" change per turn of the adjusting ring.

## Bushing Bores

Table No. 2

| Bushing No. | Bore Range      |
|-------------|-----------------|
| P2          | 3/4" - 1 3/4"   |
| P3          | 1 1/8" - 1 5/8" |
| Q2          | 1 - 2 5/8"      |
| Q3          | 1 3/8" - 2 1/2" |

## Standard Keyseats

Table No. 3

| Bore Range        | Keyseat       |
|-------------------|---------------|
| 3/4" - 7/8"       | 3/16" x 3/32" |
| 15/16" - 1 1/4"   | 1/4 x 1/8     |
| 1 5/16" - 1 3/8"  | 5/16 x 5/32   |
| 1 7/16" - 1 3/4"  | 3/8 x 3/16    |
| 1 13/16" - 2 1/4" | 1/2 x 1/4     |
| 2 5/16" - 2 5/8"  | 5/8 x 5/16    |

1 3/8" Bore Bushing (Except P3 and Q3) are available with 3/8" x 3/16" Keyseat.