

## V-Belt Pulleys for Taper Bushes



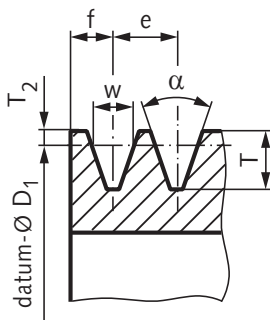
### General Description

V-belt pulleys from grey cast iron for taper bushes, for easy and fast mounting. The taper bush has to be ordered separately. Regarding DIN 2211, DIN 2217 and ISO 4183, matching to classical V-belts DIN 2215 and narrow V-belts DIN 7753-1 / ISO 4184 and ARPM/MPA. The nominal diameter is the datum diameter. Maximum speed  $v = 35$  m/s.

### Power Ratings

The transmissible power and service life depend, among other things, on the type of belt, profile size, number of pulleys, pulley arrangement, pulley diameters and transmission ratio, speed, centre distance and any alternating bending. Reference values for 2-pulley drives are given in reference books for mechanical engineering and in DIN 2218 and DIN 2211-3.

### General Dimensions



| Profile     | e<br>mm | f<br>mm | T <sup>1)</sup><br>mm | T <sub>2</sub> <sup>1)</sup><br>mm | w<br>mm | $\alpha = 34^\circ$<br>at D <sub>1</sub> | $\alpha = 38^\circ$<br>at D <sub>1</sub> |
|-------------|---------|---------|-----------------------|------------------------------------|---------|--|--|
| Z, SPZ, XPZ | 12      | 8       | 11                    | 2                                  | 8,5     | $\leq 80$                                | $> 80$                                   |
| A, SPA, XPA | 15      | 10      | 13,8                  | 2,8                                | 11      | $\leq 118$                               | $> 118$                                  |
| B, SPB, XPB | 19      | 12,5    | 17,5                  | 3,5                                | 14      | $\leq 190$                               | $> 190$                                  |
| C, SPC, XPC | 25,5    | 17      | 23,8                  | 4,8                                | 19      | $\leq 315$                               | $> 315$                                  |

<sup>1)</sup> Minimum dimensions like DIN/ISO.

### Minimum Diameter D<sub>1</sub>

Narrow V-belts DIN 7753 (SP) are significantly higher than classic V-belts DIN 2215. This requires larger pulley diameters (nominal diameter D<sub>1</sub> = effective diameter). Cogged narrow V-belts XP are more flexible than narrow V-belts SP.

| Profile | D <sub>1</sub><br>mm | Profile | D <sub>1</sub><br>mm | Profile | D <sub>1</sub><br>mm |
|---------|----------------------|---------|----------------------|---------|----------------------|
| SPZ     | 63                   | XPZ     | 56                   | Z (10)  | 50                   |
| SPA     | 90                   | XPA     | 71                   | A (13)  | 71                   |
| SPB     | 140                  | XPB     | 112                  | B (17)  | 112                  |
| SPC     | 224                  | XPC     | 180                  | C (22)  | 180                  |

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### Taper Bushes

These customary conical bushes are used for easy and fast mounting of driving elements in Taper version. They can be used with and without key.

The bushes are available with various outer dimensions. For every outside measure there are bushes with many different bores available. This mounting method is cost-efficient and fast, and suitable for rather high torques. The taper bush has to be ordered separately.

