

AMB STEEL MEMBRANE COUPLINGS /314 series/

Example of designation of the AMB type coupling with the nominal torque of $M_n=1800$ Nm, hub holes diameter of $d_1=60$ mm, $d_2=80$ mm, hub holes lengths of $l_1=75$ mm, $l_2=90$ mm, size of 75 in the A version:

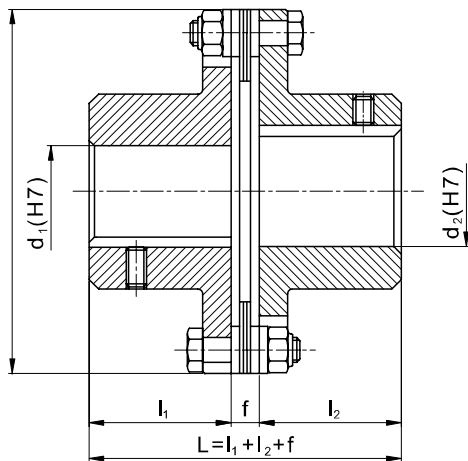
Prod. sheet No.

44 AMB

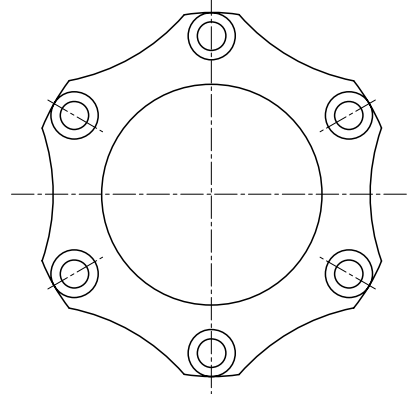
1800-60/75-80/90- 75 AMB-A Steel Membrane Coupling

03.2004

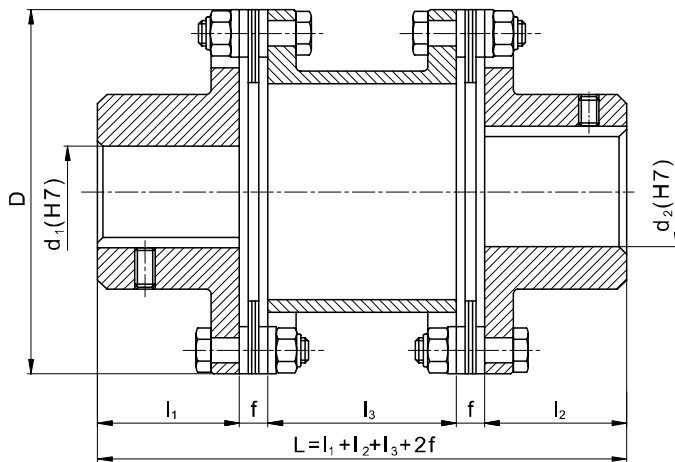
version A



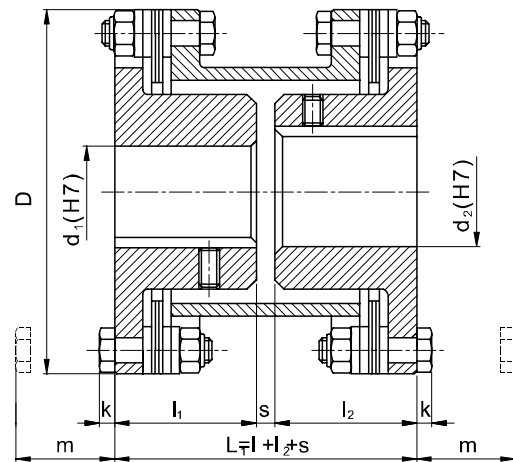
membrane package



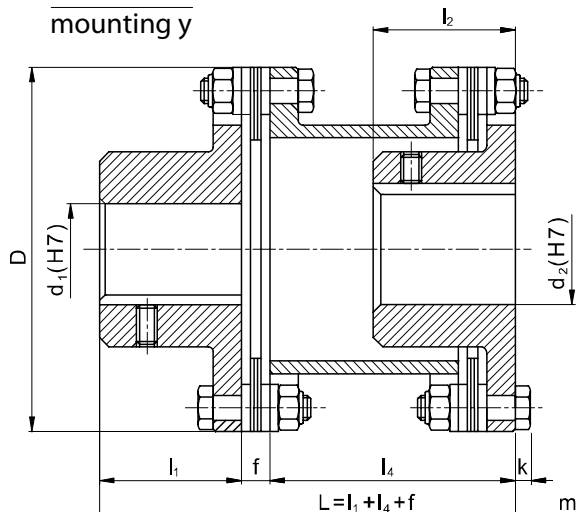
version B -mounting x



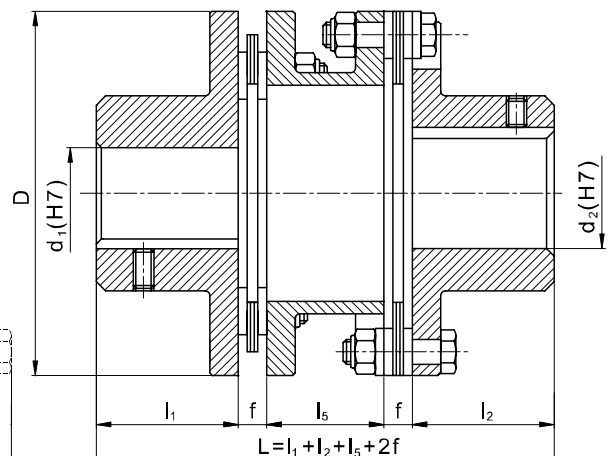
version B -mounting z



version B
mounting y



version C



| Coupling Size | | 55 | 65 | 75 | 80 | 85 | 90 | 98 |
|---|-----------------------|---------|---------|---------|---------|----------|----------|-----------|
| Nominal torque M_n [Nm] | | 800 | 1200 | 1800 | 2800 | 6000 | 9000 | 14000 |
| Torque at Axial Deviation Per One Membrane [Nm] | 0,25 ⁰ | 800 | 1200 | 1800 | 2800 | 6000 | 9000 | 14000 |
| | 0,50 ⁰ | 800 | 1200 | 1800 | 2800 | 4500 | 6000 | 9000 |
| | 1,00 ⁰ | 600 | 900 | 1400 | 2000 | 2500 | 3000 | 4000 |
| | 1,30 ⁰ | 400 | 600 | 1000 | 1500 | - | - | - |
| Coupling Torque at Variable Load and Max. Deflection [Nm] | | 250 | 300 | 550 | 850 | 1600 | 1900 | 3500 |
| Max. Rotational Speed [1/min] | | 6700 | 5900 | 5100 | 4750 | 4300 | 4000 | 3400 |
| Weight [kg] ¹⁾ | ver. A | 4,2 | 6,4 | 9,6 | 12,5 | 15,5 | 19,5 | 30 |
| | ver. B | 5,7 | 8,5 | 12,5 | 16,5 | 21 | 27 | 42 |
| Moment of Inertia [kgm ² ·10 ⁻³] ¹⁾ | ver. A | 6,1 | 11,8 | 23,8 | 36,5 | 57 | 83 | 174 |
| | ver. B | 10,2 | 18,7 | 37,5 | 59 | 95 | 138 | 294 |
| Dimensions [mm] | | | | | | | | |
| d_1, d_2 | max ²⁾ | 65 (55) | 75 (65) | 85 (75) | 90 (80) | 100 (85) | 110 (90) | 120 (100) |
| | initial ³⁾ | 12 | 16 | 16 | 20 | 20 | 24 | 24 |
| D | | 128 | 145 | 168 | 180 | 200 | 215 | 250 |
| $l_{1,2}$ ⁴⁾ | nomin. | 55 | 65 | 75 | 80 | 80 | 90 | 100 |
| l_3 | | 74 | 94 | 108 | 110 | 110 | 120 | 124 |
| l_4 | | 94 | 114 | 131 | 137 | 138 | 153 | 165 |
| l_5 | | 38 | 48 | 55 | 57 | 56 | 61 | 63 |
| f | | 11 | 11 | 14 | 15 | 15 | 20 | 23 |
| s | | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| k | | 5,5 | 5,5 | 7 | 8 | 10 | 10 | 13 |
| m | | 40 | 40 | 48 | 55 | 62 | 66 | 82 |
| Max. flexibility⁵⁾ | | | | | | | | |
| angular [deg] | ver. A | 1,3 | 1,3 | 1,3 | 1,3 | 1 | 1 | 1 |
| | ver. B,C | 2,6 | 2,6 | 2,6 | 2,6 | 2 | 2 | 2 |
| axial [mm] | ver. A | 1,0 | 1,1 | 1,3 | 1,3 | 1,0 | 1,2 | 1,4 |
| | ver. B,C | 2,0 | 2,2 | 2,6 | 2,6 | 2,0 | 2,4 | 2,8 |
| radial [mm] | ver. A | - | - | - | - | - | - | - |
| | ver. B | 1,75 | 2,15 | 2,5 | 2,55 | 2,0 | 2,5 | 2,0 |
| | ver. C | 1,0 | 1,2 | 1,4 | 1,5 | 1,1 | 1,4 | 1,5 |
| We produce splineways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance. | | | | | | | | |
| Material - steel | | | | | | | | |
| ¹⁾ The weight and the moment of inertia have been determined for the coupling with the maximum hole without a splineway. | | | | | | | | |
| ²⁾ Dimensions in brackets refer to „y” or „z” method of installation. | | | | | | | | |
| ³⁾ Designation of the coupling with lead holes(ow)acc. to the table, other parameters as in the example of the designation above: 1800-60/75-80/90- 75 AMB-A Steel Membrane Coupling | | | | | | | | |
| ⁴⁾ On request, we produce couplings with hub lengths different than the lengths provided in the table. | | | | | | | | |
| ⁵⁾ The recommended deviations – up to 10% of the maximum deviation value. | | | | | | | | |
| Applications: machinery and equipment for chemical, paper, steel, food and power industry, including: stirrers, conveyors, blowers, fans, power generators, pumps, compressors, etc. | | | | | | | | |
| Membrane working conditions: work at temperature of up to 250°C | | | | | | | | |
| We are also offering tailor-made special versions. | | | | | | | | |