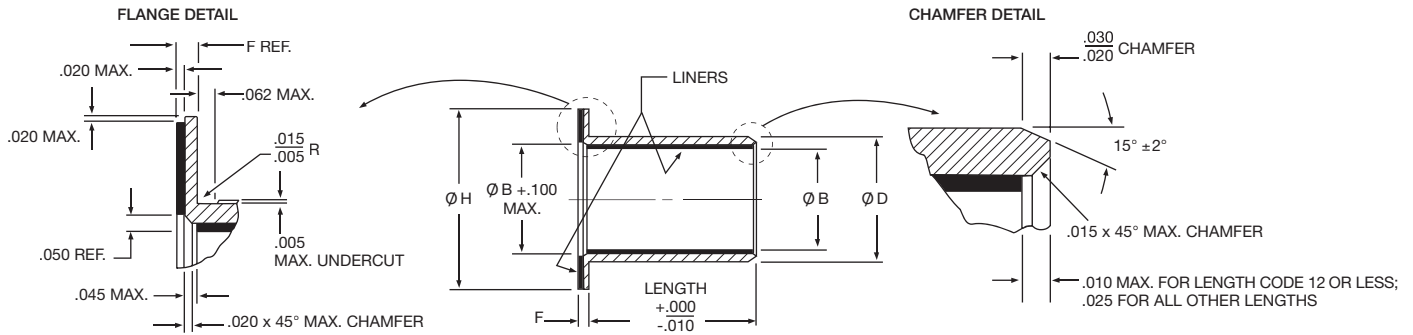


# SLEEVE BEARINGS – Self-Lubricating

## AS81934/2 Flanged



| Part Number     | (B)<br>Bore Diameter | (D) Outside Diameter                  |  |              | (H)<br>Flange Diameter | (F)<br>Flange Thickness | Approx. Sleeve Weight<br>LB. In. (Ref.) L = 1.000 |      | Flange Weight<br>lbs. (Ref.) |       |
|-----------------|----------------------|---------------------------------------|--|--------------|------------------------|-------------------------|---|------|------------------------------|-------|
|                 |                      | Alum. Tol. +.0005/- .0005<br>Standard | CRES Tol. +.0000/- .0005<br>1st Oversize | 2nd Oversize |                        |                         | Alum.   | CRES | Alum.                        | CRES  |
|                 | Inch                 |                                       |  |              | Inch                   | Inch                    | Inch  | Inch | lb/in                        | lb/in |
| <b>M81934/2</b> | + .0000<br>- .0010   |                                       |  |              | + .000<br>- .020       | + .000<br>- .005        | - .005<br>- .005                                  |      |                              |       |
| ADLF04          | .2515                | .3760                                 | .3860                                    | .3960        | .750                   | .0625                   | .006  | .016 | .002                         | .006  |
| ADLF05          | .3140                | .4386                                 | .4486                                    | .4586        | .812                   | .0625                   | .007  | .019 | .003                         | .007  |
| ADLF06          | .3765                | .5012                                 | .5112                                    | .5212        | .875                   | .0625                   | .008  | .022 | .003                         | .007  |
| ADLF07          | .4390                | .5638                                 | .5738                                    | .5838        | .937                   | .0625                   | .009  | .025 | .003                         | .008  |
| ADLF08          | .5015                | .6265                                 | .6365                                    | .6465        | 1.000                  | .0625                   | .011  | .028 | .003                         | .009  |
| ADLF09          | .5640                | .6892                                 | .6992                                    | .7092        | 1.125                  | .0625                   | .012  | .031 | .004                         | .011  |
| ADLF10          | .6265                | .8142                                 | .8242                                    | .8342        | 1.250                  | .0625                   | .021  | .056 | .005                         | .014  |
| ADLF11          | .6890                | .8767                                 | .8867                                    | .8967        | 1.375                  | .0625                   | .022  | .060 | .006                         | .016  |
| ADLF12          | .7515                | .9393                                 | .9493                                    | .9593        | 1.500                  | .0625                   | .024  | .065 | .007                         | .020  |
| ADLF14          | .8765                | 1.0645                                | 1.0745                                   | 1.0845       | 1.625                  | .0625                   | .028  | .075 | .008                         | .022  |
| ADLF16          | 1.0015               | 1.1898                                | 1.1998                                   | 1.2098       | 1.750                  | .0625                   | .031  | .084 | .009                         | .024  |
| ADLF18          | 1.1265               | 1.3148                                | 1.3248                                   | 1.3348       | 1.875                  | .0937                   | .035  | .094 | .015                         | .041  |
| ADLF20          | 1.2515               | 1.4398                                | 1.4498                                   | 1.4598       | 2.000                  | .0937                   | .038  | .103 | .016                         | .045  |
| ADLF22          | 1.3765               | 1.5648                                | 1.5748                                   | 1.5848       | 2.125                  | .0937                   | .041  | .113 | .017                         | .048  |
| ADLF24          | 1.5015               | 1.7523                                | 1.7623                                   | 1.7723       | 2.250                  | .0937                   | .062  | .171 | .018                         | .051  |
| ADLF26          | 1.6265               | 1.8773                                | 1.8873                                   | 1.8973       | 2.375                  | .0937                   | .067  | .183 | .020                         | .055  |
| ADLF28          | 1.7515               | 2.0023                                | 2.0123                                   | 2.0223       | 2.500                  | .0937                   | .071  | .196 | .021                         | .058  |
| ADLF32          | 2.0015               | 2.2523                                | 2.2623                                   | 2.2723       | 2.750                  | .0937                   | .081  | .222 | .023                         | .065  |

### Notes:

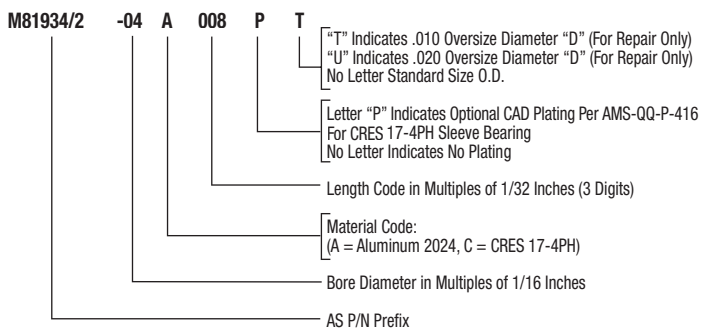
- Static Limit Load:  
Alum., 50,000 psi X B(L + F - .13) = lbs.  
CRES, 78,500 psi X B(L + F - .13) = lbs.
- Dynamic Capacity: 37,500 X B(L + F - .13) = lbs.
- Temperature: Operating temperature range -65° to 325°F.
- Concentricity tolerance between B and D diameters shall not exceed .003 FIM.
- Bearings listed in table are approved for procurement to AS81934.

### Materials

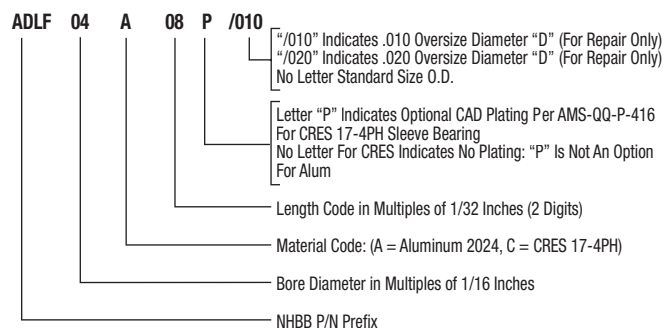
| Material Code | Sleeve   | Liner   |
|---------------|--|---|
| A             | Aluminum Alloy<br>2024-T851 or<br>2024-T8511 per<br>AMS-QQ-A-225/6 or<br>AMS-QQ-A-200/3. Finish<br>Anodized per AMS-A-8625,<br>Type I or II or Alodine<br>per AMS-C-5541 | PTFE/Fabric<br>Bonded to Bore<br>and Flange<br>Face. No Lub.<br>Required. |
| C             | CRES 17-4PH<br>H.T. to Condition<br>H-1150 per AMS-H-6875  | "   |



### Aerospace Standard P/N



### NHBB P/N



### Length (Tolerance +.000, -.010)

| Bore Code | 5/32 | 3/16 | 7/32 | 1/4 | 9/32 | 5/16 | 11/32 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 7/8 | 1  | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 1 7/8 | 2  | 2 1/8 | 2 1/4 | 2 3/8 | 2 1/2 | 2 3/4 | 3  |
|-----------|------|------|------|-----|------|------|-------|-----|------|-----|------|-----|-------|-----|-----|----|-------|-------|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|-------|----|
| 04        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   |     |      |     |       |     |     |    |       |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 05        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   |     |       |     |     |    |       |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 06        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    |     |     |    |       |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 07        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  |    |       |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 08        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  |    |       |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 09        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    |       |       |       |       |       |       |    |       |       |       |       |       |    |
| 10        | 05   | 06   | 07   | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    |       |       |       |       |    |       |       |       |       |       |    |
| 11        |      |      |      | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    |       |       |    |       |       |       |       |       |    |
| 12        |      |      |      | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    |       |       |    |       |       |       |       |       |    |
| 14        |      |      |      | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    |       |       |    |       |       |       |       |       |    |
| 16        |      |      |      | 08  | 09   | 10   | 11    | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    |    |       |       |       |       |       |    |
| 18        |      |      |      |     | 10   | 11   | 12    | 14  | 16   | 18  | 20   | 22  | 24    | 28  | 32  | 36 | 40    | 44    | 48    | 52    | 56    | 60    |       |    |       |       |       |       |       |    |
| 20        |      |      |      |     |      |      |       | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    |       |       |       |       |    |
| 22        |      |      |      |     |      |      |       | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    |       |       |       |       |    |
| 24        |      |      |      |     |      |      |       | 12  | 14   | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    | 72    | 76    | 80    | 88    |    |
| 26        |      |      |      |     |      |      |       |     |      | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    | 72    | 76    | 80    | 88    | 96 |
| 28        |      |      |      |     |      |      |       |     |      | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    | 72    | 76    | 80    | 88    | 96 |
| 32        |      |      |      |     |      |      |       |     |      | 16  | 18   | 20  | 22    | 24  | 28  | 32 | 36    | 40    | 44    | 48    | 52    | 56    | 60    | 64 | 68    | 72    | 76    | 80    | 88    | 96 |

### Shaft and Housing Information

For optimum performance with lined sleeve bearings, considerable care must be exercised in the design of housings and shafts. For extreme applications involving dissimilar materials, elevated temperatures, or extreme loads, contact NHBB Applications Engineering for application recommendations. The adjacent table applies to normal conditions.

|                     | Shaft                                | Housing                 |
|---------------------|--------------------------------------|-------------------------|
| Diameter            | B - .001<br>to - .002                | D - .0006<br>to - .0011 |
| Taper and Roundness | Not to exceed .0005                  | Not to exceed .0005     |
| Finish              | 8 max. Polished or honed after grind |                         |
| Hardness            | Rc50 min.                            |                         |