



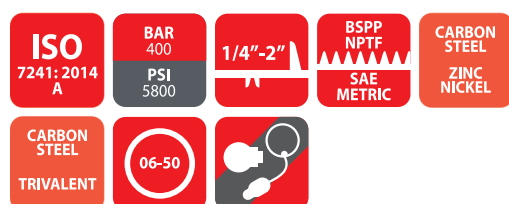
## ISO A couplings made to the ISO 7241:2014 Series A Standard

### AH Series



#### INTRODUCTION

Atauff AH Series ISO A couplings are the ideal choice where a tough, durable product of superior quality is required. They are perfectly suited to agricultural and industrial applications.



#### CONSTRUCTION

- Carbon steel with trivalent plating (Zinc nickel plating available)
- Fitted with Nitrile seals (Viton seals available)
- Also available in AISI 316 stainless steel (See AH Series)
- Also available in Ford style

#### FEATURES

- Optional zinc nickel plating provides corrosion resistance (1200 hours with no red rust in salt spray tests)
- Poppet valves have balanced springs
- Locking ball system allows quick connection
- Bidirectional flow

#### SPECIFICATIONS

- Operating temperatures (with Nitrile seals): -40°C (-40°F) to 106°C (223°F), (with Viton seals): -20°C (-4°F) to 200°C (392°F)

#### APPLICATIONS

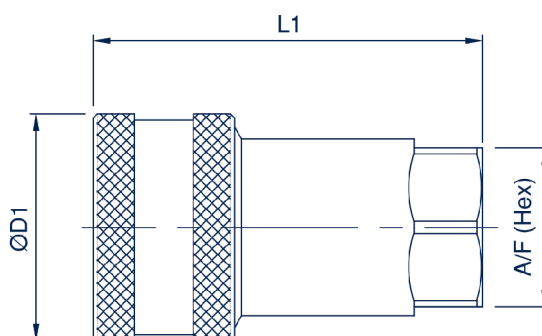
- General hydraulics
- Mobile
- Construction
- Agricultural

#### AH PERFORMANCE CHARACTERISTICS

| Body Size                          | AH06                          | AH10          | AH12          | AH19          | AH25          | AH32          | AH40          | AH50         |
|------------------------------------|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|                                    | Pressure in bar - Flow in LPM |               |               |               |               |               |               |              |
|                                    | Pressure in PSI Flow in GPM   |               |               |               |               |               |               |              |
| Maximum working pressure (Coupled) | 400<br>5800                   | 350<br>5075   | 320<br>4640   | 300<br>4350   | 250<br>3625   | 250<br>3625   | 230<br>3335   | 170<br>2465  |
| Burst pressure (Coupled)           | 2200<br>31900                 | 1800<br>26100 | 1500<br>21750 | 1300<br>18850 | 1200<br>17400 | 1200<br>17400 | 1000<br>14500 | 800<br>11600 |
| Burst pressure (Male)              | 1900<br>27550                 | 1700<br>24650 | 1500<br>21750 | 1300<br>18850 | 1100<br>15950 | 1200<br>17400 | 1000<br>14500 | 800<br>11600 |
| Burst pressure (Female)            | 1800<br>26100                 | 1600<br>23200 | 1400<br>20300 | 1200<br>17400 | 1000<br>14500 | 1150<br>16675 | 900<br>13050  | 750<br>10875 |
| Rated Flow                         | 3<br>0.8                      | 23<br>6.1     | 45<br>12      | 106<br>28     | 189<br>50     | 288<br>76     | 379<br>100    | 757<br>200   |

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## AH FEMALE COUPLING

| Body Size          | Part Number | Thread Size | D1   |      | L1    |      | A/F  |      |
|--------------------|-------------|-------------|------|------|-------|------|------|------|
|                    |             |             | mm   | inch | mm    | inch | mm   |      |
| <b>06 (1/4")</b>   | AH06-04G-F  | 1/4 BSPP    | 26.0 | 1.02 | 50.0  | 1.79 | 19.0 | 0.75 |
|                    | AH06-04N-F  | 1/4 NPTF    | 26.0 | 1.02 | 50.0  | 1.79 | 19.0 | 0.75 |
| <b>10 (3/8")</b>   | AH10-06G-F  | 3/8 BSPP    | 31.5 | 1.24 | 56.0  | 2.21 | 22.0 | 0.87 |
|                    | AH10-06N-F  | 3/8 NPTF    | 31.5 | 1.24 | 56.0  | 2.21 | 22.0 | 0.87 |
| <b>12 (1/2")</b>   | AH12-08G-F  | 1/2 BSPP    | 38.6 | 1.52 | 66.3  | 2.61 | 27.0 | 1.06 |
|                    | AH12-08N-F  | 1/2 NPTF    | 38.6 | 1.52 | 66.3  | 2.61 | 27.0 | 1.06 |
| <b>19 (3/4")</b>   | AH19-12G-F  | 3/4 BSPP    | 48.0 | 1.89 | 80.2  | 3.16 | 34.0 | 1.34 |
|                    | AH19-12N-F  | 3/4 NPTF    | 48.0 | 1.89 | 80.2  | 3.16 | 34.0 | 1.34 |
| <b>25 (1")</b>     | AH25-16G-F  | 1 BSPP      | 56.0 | 2.20 | 94.2  | 3.71 | 41.0 | 1.61 |
|                    | AH25-16N-F  | 1 NPTF      | 56.0 | 2.20 | 94.2  | 3.71 | 41.0 | 1.61 |
| <b>32 (1 1/4")</b> | AH32-20G-F  | 1 1/4 BSPP  | 69.4 | 2.73 | 117.1 | 4.61 | 50.0 | 1.97 |
|                    | AH32-20N-F  | 1 1/4 NPTF  | 69.4 | 2.73 | 117.1 | 4.61 | 50.0 | 1.97 |
| <b>40 (1 1/2")</b> | AH40-24G-F  | 1 1/2 BSPP  | 84.0 | 3.31 | 133.0 | 5.24 | 60.0 | 2.36 |
|                    | AH40-24N-F  | 1 1/2 NPTF  | 84.0 | 3.31 | 133.0 | 5.24 | 60.0 | 2.36 |
| <b>50 (2")</b>     | AH50-32G-F  | 2 BSPP      | 99.0 | 3.90 | 165.0 | 6.50 | 75.0 | 2.95 |
|                    | AH50-32N-F  | 2 NPTF      | 99.0 | 3.90 | 165.0 | 6.50 | 75.0 | 2.95 |

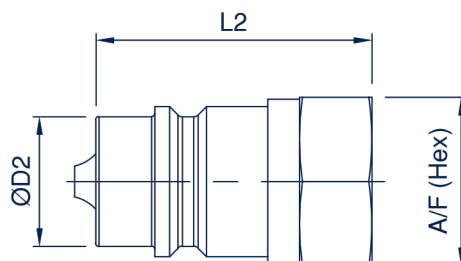
For all other configurations or thread types please contact the sales office



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### AH MALE COUPLING

| Body Size   | Part Number | Thread Size | D2   |      | L2    |      | A/F  |      |
|-------------|-------------|-------------|------|------|-------|------|------|------|
|             |             |             | mm   | inch | mm    | inch | mm   | inch |
| 06 (1/4")   | AH06-04G-M  | 1/4 BSPP    | 11.8 | 0.46 | 35.5  | 1.40 | 19.0 | 0.75 |
|             | AH06-04N-M  | 1/4 NPTF    | 11.8 | 0.46 | 35.5  | 1.40 | 19.0 | 0.75 |
| 10 (3/8")   | AH10-06G-M  | 3/8 BSPP    | 17.3 | 0.68 | 36.5  | 1.44 | 22.0 | 0.87 |
|             | AH10-06N-M  | 3/8 NPTF    | 17.3 | 0.68 | 36.5  | 1.44 | 22.0 | 0.87 |
| 12 (1/2")   | AH12-08G-M  | 1/2 BSPP    | 20.5 | 0.81 | 43.5  | 1.71 | 27.0 | 1.06 |
|             | AH12-08N-M  | 1/2 NPTF    | 20.5 | 0.81 | 43.5  | 1.71 | 27.0 | 1.06 |
| 19 (3/4")   | AH19-12G-M  | 3/4 BSPP    | 29.1 | 1.14 | 57.0  | 2.24 | 35.0 | 1.38 |
|             | AH19-12N-M  | 3/4 NPTF    | 29.1 | 1.14 | 57.0  | 2.24 | 35.0 | 1.38 |
| 25 (1")     | AH25-16G-M  | 1 BSPP      | 34.3 | 1.35 | 59.5  | 2.34 | 41.0 | 1.61 |
|             | AH25-16N-M  | 1 NPTF      | 34.3 | 1.35 | 59.5  | 2.34 | 41.0 | 1.61 |
| 32 (1 1/4") | AH32-20G-M  | 1 1/4 BSPP  | 45.0 | 1.77 | 75.0  | 2.95 | 50.0 | 1.97 |
|             | AH32-20N-M  | 1 1/4 NPTF  | 45.0 | 1.77 | 75.0  | 2.95 | 50.0 | 1.97 |
| 40 (1 1/2") | AH40-24G-M  | 1 1/2 BSPP  | 55.0 | 2.16 | 83.5  | 3.29 | 60.0 | 2.36 |
|             | AH40-24N-M  | 1 1/2 NPTF  | 55.0 | 2.16 | 83.5  | 3.29 | 60.0 | 2.36 |
| 50 (2")     | AH50-32G-M  | 2 BSPP      | 65.1 | 2.56 | 105.0 | 4.13 | 75.0 | 2.95 |
|             | AH50-32N-M  | 2 NPTF      | 65.1 | 2.56 | 105.0 | 4.13 | 75.0 | 2.95 |

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