

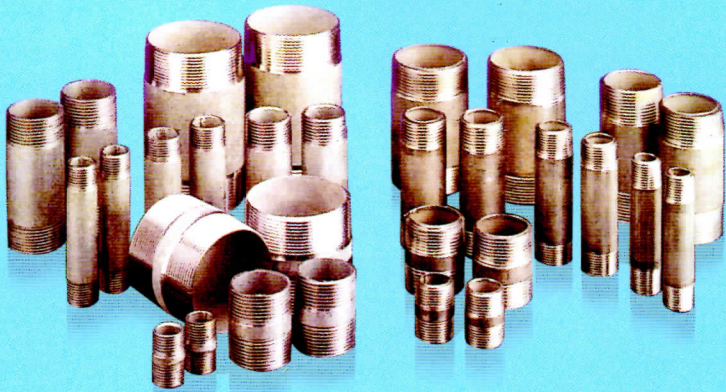


# CARBON STEEL & SUS PIPE **NIPPLES & SOCKETS**

KOREA



진우공업주식회사  
JINWOO INDUSTRIAL INC.



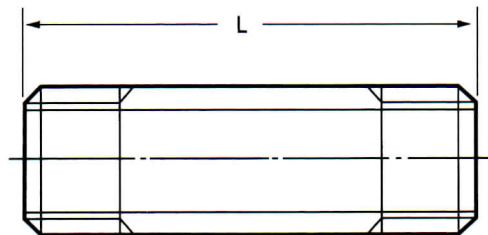
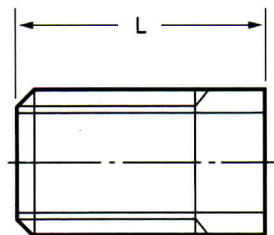
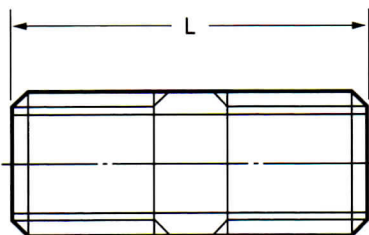
# NIPPLE

## Nipple Products

### Carbon Steel Pipe Nipple & Stainless Steel Pipe Nipple(SUS 304)

Unit : mm

| Item         |        | Pipe Outside Diameter   |                     |              | Close Nipple | Barrel Nipple | Long Nipple |    |    |     |     |     |     |     |     |  |
|--------------|--------|-------------------------|---------------------|--------------|--------------|---------------|-------------|----|----|-----|-----|-----|-----|-----|-----|--|
| Nominal Size |        | KS D 3507<br>JIS G 3452 | BS 1387<br>(Medium) | ASTM<br>A 53 | Length       | Length        | Length      |    |    |     |     |     |     |     |     |  |
| 8A           | 1/4"   | 13.8                    | 13.9                | 13.7         | 24           | 26            | 50          | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 10A          | 3/8"   | 17.3                    | 17.4                | 17.1         | 26           | 28            | 50          | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 15A          | 1/2"   | 21.7                    | 21.7                | 21.3         | 29           | 34            | 50          | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 20A          | 3/4"   | 27.2                    | 27.2                | 26.7         | 35           | 38            | 50          | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 25A          | 1"     | 34.0                    | 34.2                | 33.4         | 38           | 42            | 50          | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 32A          | 1 1/4" | 42.7                    | 42.9                | 42.2         | 41           | 50            |             | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 40A          | 1 1/2" | 48.6                    | 48.8                | 48.3         | 44           | 50            |             | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 50A          | 2"     | 60.5                    | 60.8                | 60.3         | 51           | 58            |             | 65 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 65A          | 2 1/2" | 76.3                    | 76.6                | 73.0         | 64           | 70            |             |    | 75 | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 80A          | 3"     | 89.1                    | 89.5                | 88.9         | 67           | 78            |             |    |    | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 100A         | 4"     | 114.3                   | 114.9               | 114.3        | 73           | 90            |             |    |    | 100 | 125 | 150 | 200 | 250 | 300 |  |
| 125A         | 5"     | 139.8                   | 140.6               | 141.3        | 76           | 103           |             |    |    |     | 125 | 150 | 200 | 250 | 300 |  |
| 150A         | 6"     | 165.2                   | 166.1               | 168.3        | 79           | 103           |             |    |    |     | 125 | 150 | 200 | 250 | 300 |  |





# SOCKET

## Socket Products

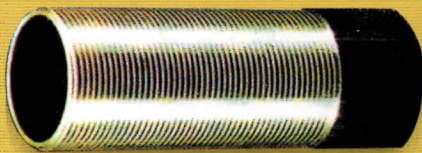
| Item            |        | KS B 1533       |    |               |    | JIS<br>B 2302 |    | KS C 8460 BC<br>Conduit Coupling |      | BS 1387<br>SOCKET |      | ISO 50R<br>(DIN)<br>SOCKET |    | Threads<br>Number<br>Per<br>Inch | ASTM A53<br>SOCKET |       | ANSI C 80.1<br>(UL-6)<br>Couduit Coupling |       | Threads<br>Number<br>Per<br>Inch |
|-----------------|--------|-----------------|----|---------------|----|---------------|----|----------------------------------|------|-------------------|------|----------------------------|----|----------------------------------|--------------------|-------|-------------------------------------------|-------|----------------------------------|
| Dia &<br>Length |        | Steel<br>Socket |    | SUS<br>Socket |    |               |    |                                  |      |                   |      |                            |    |                                  |                    |       |                                           |       |                                  |
| Nominal<br>Size |        | OD              | L  | OD            | L  | OD            | L  | SIZE/OD                          | L    | OD                | L    | OD                         | L  |                                  | OD                 | L     | OD                                        | L     |                                  |
| 8A              | 1/4"   | 18.5            | 25 | 17.0          | 25 | 18.5          | 25 |                                  |      | 18.5              | 27.0 | 18.5                       | 25 | 19                               | 18.2               | 28.6  |                                           |       | 18                               |
| 10A             | 3/8"   | 21.3            | 26 | 20.5          | 26 | 21.3          | 26 |                                  |      | 22.0              | 28.0 | 21.3                       | 26 | 19                               | 22.3               | 28.6  |                                           |       | 18                               |
| 15A             | 1/2"   | 26.4            | 34 | 24.5          | 34 | 26.4          | 34 | 16BC/25.0                        | 38.0 | 27.0              | 37.0 | 26.4                       | 34 | 14                               | 27.0               | 38.0  | 25.7                                      | 41.3  | 14                               |
| 20A             | 3/4"   | 31.8            | 36 | 30.5          | 36 | 31.8          | 36 | 22BC/31.0                        | 44.0 | 32.5              | 39.0 | 31.8                       | 36 | 14                               | 33.4               | 40.0  | 31.8                                      | 41.7  | 14                               |
| 25A             | 1"     | 39.5            | 43 | 37.5          | 43 | 39.5          | 43 | 28BC/37.5                        | 50.0 | 39.5              | 46.0 | 39.5                       | 43 | 11                               | 40.0               | 49.0  | 38.7                                      | 50.0  | 11 1/2                           |
| 32A             | 1 1/4" | 48.3            | 48 | 46.4          | 48 | 48.3          | 48 | 36BC/48.5                        | 56.0 | 49.0              | 51.0 | 48.3                       | 48 | 11                               | 48.3               | 50.0  | 47.5                                      | 51.6  | 11 1/2                           |
| 40A             | 1 1/2" | 54.5            | 48 | 52.4          | 48 | 54.5          | 48 | 42BC/54.5                        | 56.0 | 56.0              | 51.0 | 54.5                       | 48 | 11                               | 55.9               | 50.0  | 54.7                                      | 52.4  | 11 1/2                           |
| 50A             | 2"     | 66.3            | 56 | 65.           | 56 | 66.3          | 56 | 54BC/68.0                        | 64.0 | 68.0              | 60.0 | 66.3                       | 56 | 11                               | 69.8               | 52.0  | 67.3                                      | 54.0  | 11 1/2                           |
| 65A             | 2 1/2" | 82              | 65 | 80.0          | 65 | 82.0          | 65 | 70BC/84.0                        | 72.0 | 84.0              | 69.0 | 82.0                       | 65 | 11                               | 82.5               | 78.0  | 82.6                                      | 81.0  | 8                                |
| 80A             | 3"     | 95              | 71 | 92.0          | 71 | 95.0          | 71 | 82BC/97.0                        | 80.0 | 98.0              | 75.0 | 95.0                       | 71 | 11                               | 101.6              | 81.0  | 98.3                                      | 84.1  | 8                                |
| 90A             | 3 1/2" |                 |    |               |    |               |    | 92BC/110.5                       | 85.0 | 110.9             | 79.0 |                            |    | 11                               | 117.5              | 84.0  | 114.3                                     | 86.5  | 8                                |
| 100A            | 4"     | 122.0           | 83 | 120.0         | 83 | 122.0         | 83 | 104BC/123.5                      | 90.0 | 124.0             | 87.0 | 122.0                      | 83 | 11                               | 127.0              | 87.0  | 123.8                                     | 89.3  | 8                                |
| 125A            | 5"     | 147.0           | 92 | 145.0         | 92 | 147.0         | 92 |                                  |      | 151.0             | 96.0 | 147.0                      | 92 | 11                               | 159.9              | 94.0  | 152.4                                     | 100.4 | 8                                |
| 150A            | 6"     | 174.0           | 92 | 173.0         | 92 | 174.0         | 92 |                                  |      | 178.0             | 96.0 | 174.0                      | 92 | 11                               | 187.7              | 100.0 | 182.9                                     | 108.0 | 8                                |



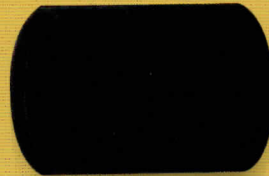


# SPECIAL

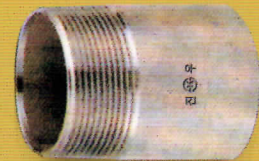
## Special Products



**Carbon Steel Nipple**  
(One end thread)  
2" - 4"



**Carbon Steel Socket**  
(Length designated by client)  
1/4" - 6"



**SUS 304 Nipple**  
(One end thread)  
1/4" - 4"

## Chemical & Physical Requirement

| Standard      |        | Application                                          | Chemical Requirement(%) |           |          |          |        | Physical Requirement                                    |                                             |                       |                     |
|---------------|--------|------------------------------------------------------|-------------------------|-----------|----------|----------|--------|---------------------------------------------------------|---------------------------------------------|-----------------------|---------------------|
| Specification |        |                                                      | C<br>Max                | Mn<br>Max | P<br>Max | S<br>Max | Others | Tensile<br>Strength                                     | Yield<br>Strength                           | Elongation<br>〈Min %〉 | Gauge<br>Length〈in〉 |
| ASTM<br>A 53  | A      | Steel pipe<br>for general<br>Purposes                | 0.25                    | 0.95      | 0.050    | 0.060    | -      | Min 48.000 psi<br>(33.7kg/mm <sup>2</sup> )             | Min 30.000 psi<br>(21.1kg/mm <sup>2</sup> ) | 35<br>(56t + 17.50)   | 2                   |
|               | B      |                                                      | 0.30                    | 1.20      | 0.050    | 0.060    | -      | Min 60.000 psi<br>(42.2kg/mm <sup>2</sup> )             | Min 35.000 psi<br>(24.6kg/mm <sup>2</sup> ) | 30<br>(48t + 15.00)   | 2                   |
| BS<br>1387    | L      | Steel pipe<br>for Ordinary<br>Uses<br>(for Screwing) | -                       | -         | 0.060    | 0.060    | -      | 21~30ton/m <sup>2</sup><br>(33~47.2kg/mm <sup>2</sup> ) | -                                           | 20                    | 5.65√A              |
|               | M      |                                                      | -                       | -         | 0.060    | 0.060    | -      |                                                         |                                             |                       |                     |
|               | H      |                                                      | -                       | -         | 0.060    | 0.060    | -      |                                                         |                                             |                       |                     |
| KS D 3507     | SPP    | Carbon Steel<br>Pipes for<br>Ordinary Piping         | -                       | -         | 0.040    | 0.040    | -      | 30kg/mm <sup>2</sup>                                    | -                                           | 30                    | -                   |
| JIS G 3452    | SGP    |                                                      | -                       | -         | 0.040    | 0.040    | -      | 30kg/mm <sup>2</sup>                                    | -                                           | 30                    | -                   |
| KS D 3537     | SPPW   | Galvanized<br>Steel pipes for<br>Water Service       | -                       | -         | 0.040    | 0.040    | -      | -                                                       | -                                           | -                     | -                   |
| JIS G 3452    | SGPW   |                                                      | -                       | -         | 0.040    | 0.040    | -      | -                                                       | -                                           | -                     | -                   |
| KS D 3583     | SPW41  | Electric Arc<br>Welded Carbon<br>Steel pipes         | -                       | -         | 0.050    | 0.050    | -      | -                                                       | 23kg/mm <sup>2</sup>                        | 18                    | -                   |
| JIS G 3457    | STPY41 |                                                      | -                       | -         | 0.050    | 0.050    | -      | -                                                       | 23kg/mm <sup>2</sup>                        | 18                    | -                   |

# JIN WOO INDUSTRIAL INC.

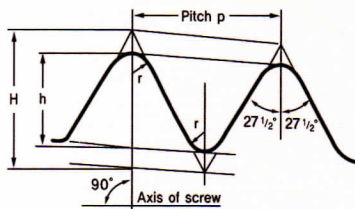


# THREAD

## Thread

### Pipe Thread for Tubes and Fittings where Pressure-tight Joints are made on the Threads(BS 21)

Taper 1 in 16 on Diameter(shown Exaggerated in Diagram)



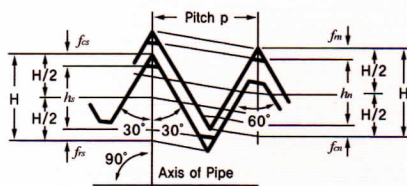
Thread Height Dimensions

(inches)

| Thread Element | 19 Threads per inch<br>p=.05263 | 14 Threads per inch<br>p=.07143 | Thread per inch<br>p=.09091 |
|----------------|---------------------------------|---------------------------------|-----------------------------|
| H=.960237p     | .0505                           | .0686                           | .0873                       |
| h=.640327p     | .0337                           | .0457                           | .0582                       |
| r=.137278p     | .0072                           | .0098                           | .0125                       |

### Standard Weight Pipe in Sizes 6 inches and Under(Threading is available to the Pipes ASTM A 53)

Taper 1 in 16 on Diameter(shown Exaggerated in Diagram)



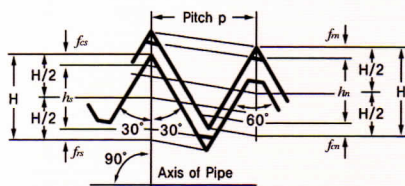
Thread Height Dimensions

(inches)

| Thread Element            | 27 Threads per inch<br>p=.0370 | 18 Threads per inch<br>p=.0556 | 14 Threads per inch<br>p=.0714 | 11 1/2 Threads per inch<br>p=.0870 | 8 Threads per inch<br>p=.125 |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------|
| h= .866p                  | .0321                          | .0481                          | .0619                          | .0753                              | .1082                        |
| $h_s = h_n = .760p$       | .0281                          | .0422                          | .0543                          | .0661                              | .0950                        |
| $f_{rs} = f_m = .033p$    | .0012                          | .0018                          | .0024                          | .0029                              | .0041                        |
| $f_{cs} = f_{cn} = .073p$ | .0027                          | .0041                          | .0052                          | .0063                              | .0091                        |

### Water Well Casing Thread(ANSI and ASTM A589)

Taper 1 in 16 on Diameter(shown Exaggerated in Diagram)



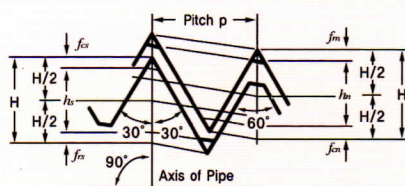
Thread Height Dimensions

(inches)

| Thread Element            | 14 Threads per inch<br>p=.0714 | 11 1/2 Threads per inch<br>p=.0870 |
|---------------------------|--------------------------------|------------------------------------|
| h= .866p                  | .0619                          | .0753                              |
| $h_s = h_n = .760p$       | .0543                          | .0661                              |
| $f_{rs} = f_m = .033p$    | .0024                          | .0029                              |
| $f_{cs} = f_{cn} = .073p$ | .0052                          | .0063                              |

### ANSI Water Well Reamed and Drift Pipe Thread(ASTM A589)

Taper 1 in 16 on Diameter(shown Exaggerated in Diagram)



Thread Height Dimensions

(inches)

| Thread Element            | 11 1/2 Threads per inch<br>p=.0870 | 8 Threads per inch<br>p=.125 |
|---------------------------|------------------------------------|------------------------------|
| h= .866p                  | .0619                              | .1082                        |
| $h_s = h_n = .760p$       | .0543                              | .0950                        |
| $f_{rs} = f_m = .033p$    | .0024                              | .0041                        |
| $f_{cs} = f_{cn} = .073p$ | .0052                              | .0091                        |

Certificate



# KS CERTIFICATE

This is to certify that the Korean Industrial Standard Mark(KS mark) of :

JINWOO INDUSTRIAL INC  
11, Mieumsandan-ro 403beon-gil, Gangseo-gu, Busan, Korea  
LEE SANG YONG

has been approved by Korean Standards Association  
to the following Korean Industrial Standard :

KS B 1533  
Screwed type steel pipe fittings  
Coupling & nipple (6A ~ 100A). end

in accordance with the Korean Industrial Standardization Act.

Certificate Number : 09-0157

Certification Date : 22-Apr-2009  
Current Certificate : 2-Dec-2015

Certified by Baek, Soo Hyun  
Chairman & CEO

KOREAN STANDARDS ASSOCIATION

305, Teheran-Ro, Gangnam-Gu, Seoul, Korea

Certificate



# 제품 인증서

인증번호 : 제 09-0157 호

제조업체명 : 진우공업 주식회사

대표자성명 : 이상용

공장소재지 : 부산광역시 강서구 미음산단로 403번길11(미음동)

인증제품

· 표준명 : 나사식 강관제 관 이음쇠

· 표준번호 : KS B 1533

· 종류·등급 또는 호칭 :

공용용 : 도금 : 탄소강제 : 소켓(6A~100A), 배럴너플(6A~100A), 롱너플(6A~100A). 끝.

산업표준화법 제17조 제1항에 따른 인증심사를 실시한 결과  
한국산업표준(KS)과 인증심사기준에 적합하므로 산업표준화법 제15조에 따라  
위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2015년 12월 8일



한국표준협회장

1. 최초인증일 : 2009-04-22

Certificate



# KS CERTIFICATE

This is to certify that the Korean Industrial Standard Mark(KS mark) of :

JINWOO INDUSTRIAL INC  
11, Mieumsandan-ro 403beon-gil, Gangseo-gu, Busan, Korea  
LEE SANG YONG

has been approved by Korean Standards Association  
to the following Korean Industrial Standard :

KS C 8460  
Fittings for rigid metal conduits  
Coupling: end

in accordance with the Korean Industrial Standardization Act.

Certificate Number : 09-0158

Certification Date : 22-Apr-2009  
Current Certificate : 2-Dec-2015

Certified by Baek, Soo Hyun  
Chairman & CEO

KOREAN STANDARDS ASSOCIATION

305, Teheran-ro, Gangnam-Gu, Seoul, Korea

Certificate



# 제품 인증서

인증번호 : 제 09-0158 호  
제조업체명 : 진우공업 주식회사  
대표자성명 : 이상용  
공장소재지 : 부산광역시 강서구 미음산단로 403번길11(미음동)  
인증제품

- 표준명 : 금속제 전선관용의 부속품
- 표준번호 : KS C 8460
- 종류·등급 또는 호칭 : 커플링(후강전선관용). 끝.

산업표준화법 제17조 제1항에 따른 인증심사를 실시한 결과

한국산업표준(KS)과 인증심사기준에 적합하므로 산업표준화법 제15조에 따라  
위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2015년 12월 8일



한국표준협회장

1. 최초인증일 : 2009-04-22



**진 우 공 업 주 식 회 사**  
**JINWOO INDUSTRIAL INC.**

● Head office & Factory ●

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