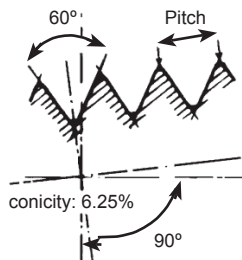


**Thread Specifications`**

**NPT Threads**

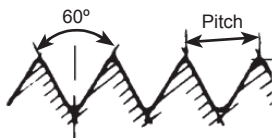
| Thread Size               | 3/8" NPT      | 1/2" NPT     | 3/4" NPT     | 1" NPT        | 1-1/4" NPT    | 1-1/2" NPT   | 2" NPT         | 3"            |
|---------------------------|---------------|--------------|--------------|---------------|---------------|--------------|----------------|---------------|
| Major Dia. in Inches (mm) | .675 (17.145) | .84 (21.336) | 1.05 (26.67) | 1.314 (33.40) | 1.66 (42.164) | 1.90 (48.26) | 2.375 (60.325) | 3.50" (88.9)  |
| Pitch in Inches (mm)      | .056 (1.411)  | .071 (1.814) | .071 (1.814) | .087 (2.208)  | .087 (2.208)  | .087 (2.208) | .087 (2.208)   | .125" (3.175) |
| Number of Pitch n         | 18            | 14           | 14           | 11 1/2        | 11 1/2        | 11 1/2       | 11 1/2         | 8             |



- NPT Thread = National Pipe Thread
- Taper rate for all NPT threads is 1/16
- The taper on NPT threads allows them to form a seal when torqued as the flanks of the threads compress against each other, as opposed to straight thread fittings

**Metric Threads**

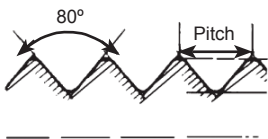
| Thread Size               | M12         | M16        | M20        | M25        | M32        | M40        | M50        | M63        | M75         | M90        |
|---------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| Major Dia. in Inches (mm) | .47 (12)    | .63 (16)   | .79 (20)   | .98 (25)   | 1.26 (32)  | 1.57 (40)  | 1.97 (50)  | 2.48 (63)  | 2.36" (60)  | 2.95" (75) |
| Pitch in Inches (mm)      | .059 (1.5)  | .059 (1.5) | .059 (1.5) | .059 (1.5) | .059 (1.5) | .059 (1.5) | .059 (1.5) | .059 (1.5) | .059" (1.5) | .79" (2.0) |
| Thru hole in inches (mm)  | .492 (12.5) | .63 (16)   | .79 (20)   | .98 (25)   | 1.26 (32)  | 1.57 (40)  | 1.97 (50)  | 2.48 (63)  | 2.36" (60)  | 2.95" (75) |



- Most commonly used thread type world-wide
- Characterized by its major diameter and its pitch
- Designated by the letter M followed by the value of the nominal diameter and the pitch, both expressed in millimeters and separated by the multiplication sign 'x' (i.e. M12 x 1.5)

**PG Threads**

| Thread Size               | PG 7       | PG 9        | PG 11       | PG 13 / 13.5 | PG 16       | PG 21       | PG 29       | PG 36       | PG 42       | PG 48       |
|---------------------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Major Dia. in Inches (mm) | .49 (12.5) | .60 (15.2)  | .73 (18.6)  | .80 (20.4)   | .89 (22.5)  | 1.11 (28.3) | 1.46 (37)   | 1.85 (47)   | 2.13 (54)   | 2.39 (59.3) |
| Pitch in Inches (mm)      | .05 (1.27) | .055 (1.41) | .055 (1.51) | .055 (1.51)  | .055 (1.51) | .062 (1.59) | .062 (1.59) | .062 (1.59) | .062 (1.59) | .062 (1.59) |
| Thru hole in inches (mm)  | .50 (12.7) | .606 (15.4) | .74 (18.8)  | .8149 (20.7) | .897 (22.8) | 1.12 (28.6) | 1.47 (37.4) | 1.87 (47.5) | 2.14 (54.5) | 2.35 (59.8) |



- PG Thread = Panzer-Gewinde (Panzer-Rohr-Gewinde)
- German thread type
- Depth of thread smaller than NPT or Metric, but larger flank angle

**Other Technical Information  
 can be found online at  
[www.SealconEX.com](http://www.SealconEX.com)**

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