

## 综述

下表中所列的是当前威格士用于紧固表面连接的产品、底板或其它连接衬垫。所用的所有的螺栓组件，不管是否带有叠加阀。

这些组件包含某些产品需要用的 2 个尺寸的螺栓。有些组件包含弹簧垫圈；这些组件旁边用“u”进行标识。

除非特殊说明，所有的螺栓都是 12.9 级的 (ISO 898) 强度，最小极限抗拉强度 = 1200 MN/m<sup>2</sup> (17,4 x 10<sup>4</sup> lbf/in<sup>2</sup>)。

## 固定螺栓组件

### 公制尺寸

尺寸 x 长度, mm (in)	数量	螺栓组件
<b>M5</b>		
M5 x 20 (0.79)	4	BK466834M
M5 x 25 (0.98)	4	BK465723M
M5 x 30 (1.18)	4	BK616452M
M5 x 40 (1.57)	4	BK02-156493M
M5 x 40 (1.57) <sup>s</sup>	4	BK991917
M5 x 50 (1.97)	4	BKDG3699M
M5 x 55 (2.17)	4	BK986135M
M5 x 60 (2.36)	4	BK466836M
M5 x 70 (2.76)	4	BK464125M
M5 x 75 (2.95)	4	BK869720M
M5 x 80 (3.15)	4	BK466837M
M5 x 90 (3.54)	4	BK466838M
M5 x 95 (3.74)	4	BK869721M
M5 x 100 (3.94)	4	BK466839M
M5 x 110 (4.33)	4	BK466840M
M5 x 120 (4.72)	4	BK466841M
M5 x 130 (5.12)	4	BK466842M
M5 x 140 (5.12)	4	BK466843M
M5 x 150 (5.91)	4	BK466844M
M5 x 160 (6.30)	4	BK466845M
M5 x 170 (6.30)	4	BK466846M
M5 x 200 (7.87)	4	BK464468M

<sup>s</sup> 镀锌，与 EHST-3 阀的铝壳体一起使用

尺寸 x 长度, mm (in)	数量	螺栓组件
<b>M6</b>		
M6 x 16 (0.63)	4	BK534564M
M6 x 20 (0.79)	4	BK534565M
M6 x 25 (0.98)	4	BK534566M
M6 x 30 (1.18)	4	BK534567M
M6 x 40 (1.57)	4	BKDG01633M <sup>u</sup>
M6 x 45 (1.77)	4	BK534569M
M6 x 50 (1.97)	4	BK534570M
M6 x 55 (2.17)	4	BK534571M
M6 x 65 (2.56)	4	BK534572M
M6 x 70 (2.76)	4	BK534573M
M6 x 75 (2.95)	4	BK534574M
M6 x 80 (3.15)	4	BK638873M
M6 x 80 (3.15)	4	BKDGFN01637M <sup>u</sup>
M6 x 85 (3.35)	4	BK978478M
M6 x 90 (3.54)	4	BK534576M
M6 x 100 (3.94)	4	BK978479M
M6 x 110 (4.33)	4	BK978480M
M6 x 115 (4.53)	4	BK534580M
M6 x 120 (4.72)	4	BK534581M
M6 x 140 (5.51)	4	BK638878M
<b>M8</b>		
M8 x 40 (1.57)	4	BKDN016701M
M8 x 50 (1.97)	4	BKPNG16703M

## 公制尺寸

尺寸 x 长度, mm (in)	数量	螺栓组件
<b>M10</b>		
M10 x 30 (1.18)	4	BKCGR02
M10 x 45 (1.77)	4	BKXG2V6
M10 x 45 (1.77) + M6 x 45 (1.77)	4 + 2	BKDG7858918
M10 x 60 (2.36) + M6 x 55 (2.16)	4 + 2	BKDG7M
M10 x 75 (2.95)	4	BKPCGV6
M10 x 80 (3.15)	4	BKPCGV8
M10 x 120 (4.72)	6	BKRX10662M
M10 x 200 (7.87) + M6 x 200 (7.87)	4 + 2	BKDG7858919
<b>M12</b>		
M12 x 40 (1.57)	4	BKDPNG25705M
M12 x 65 (2.56)	6	BKDG8655M
M12 x 65 (2.56)	6	BKDG06635M u
M12 x 80 (3.15)	6	BKDG8658M
M12 x 145 (5.71)	6	BKDG8976124
M12 x 165 (6.50)	6	BKDG8976125
M12 x 180 (7.09)	6	BKDG8976126
M12 x 235 (9.25)	6	BKDG8976127
M12 x 255 (10.04)	6	BKDG8976129
M12 x 270 (10.63)	6	BKDG8976130
M12 x 325 (12.80)	6	BKDG8976131
M12 x 355 (13.98)	6	BKDG8976134

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>M16</b>		
M16 x 45 (1.77)	4	BKCG815612M
M16 x 50 (1.97)	4	BKCG2V8
M16 x 55 (2.17)	4	BKDNG32718
M16 x 80 (3.15)	4	BKCG06600M
<b>M20</b>		
M20 x 60 (2.36)	4	BKDPNG40707M
M20 x 75 (2.95)	6	BKDG10636M u
M20 x 80 (3.15)	4	BKDNG50709M
M20 x 90 (3.54)	4	BKCG10616M
M20 x 100 (3.94)	4	BKCG10601M
M20 x 150 (5.9)	4	BK02-157288
M20 x 240 (9.45)	6	BK0304M
<b>M24</b>		
M24 x 300 (11.81)	6	BK0406M
<b>M30</b>		
M30 x 90 (3.54)	4	BKDNG63711M
M30 x 150 (5.9)	4	BK02-157289
<b>M36</b>		
M36 x 400 (15.75)	6	BK0608M/BK0708M
<b>M48</b>		
M48 x 600 (23.62)	6	BK0911M
<b>M64</b>		
M64 x 760 (29.9)	6	BK1216M

## 英制尺寸

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>#10 - 24</b>		
#10 - 24 x 1/2" (12,7)	4	BK590715
#10 - 24 x 3/4" (19,05)	4	BK466847
#10 - 24 x 1" (25,4)	4	BK304
#10 - 24 x 1 1/4" (31,8)	4	BK590716
#10 - 24 x 1 1/2" (38,1)	4	BK306
#10 - 24 x 1 5/8" (41,2)	4	BK590720
#10 - 24 x 1 3/4" (44,4)	4	BK02-156494
#10 - 24 x 1 3/4" (44,4) s	4	BKMOD617
#10 - 24 x 2" (50,8)	4	BKDG3698
#10 - 24 x 2 1/4" (57,2)	4	BK02-139165
#10 - 24 x 2 3/8" (60,3)	4	BK466849
#10 - 24 x 2 3/4" (69,9)	4	BK870017
#10 - 24 x 2 3/4" (69,9)	4	BKDGFNL694 u
#10 - 24 x 3" (76,2)	4	BK02-156496
#10 - 24 x 3 1/8" (79,4)	4	BK466850

尺寸 x 长度, in (mm)	数量	螺栓组件
#10 - 24 x 3 1/2" (88,9)	4	BK466851
#10 - 24 x 3 3/4" (95,3)	4	BK869704
#10 - 24 x 3 15/16" (100)	4	BK466852
#10 - 24 x 4" (101,6)	4	BK02-156497
#10 - 24 x 4 3/4" (120,7)	4	BK466854
#10 - 24 x 4 15/16" (125,4)	4	BK466853
#10 - 24 x 5" (127,0)	4	BK02-156499
#10 - 24 x 5 1/8" (130,2)	4	BK466855
#10 - 24 x 5 1/4" (133,4)	4	BK02-156498
#10 - 24 x 5 3/16" (134,9)	4	BK466857
#10 - 24 x 5 1/2" (139,7)	4	BK466856
#10 - 24 x 6 5/16" (160,3)	4	BK466858
#10 - 24 x 6 11/16" (170,0)	4	BK466859
#10 - 24 x 7" (177,8)	4	BK890325

s 镀锌, 与 EHST-3 阀的铝壳体一起使用。

## 英制尺寸

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>1/4" - 20</b>		
1/4" - 20 x 3/4" (19,1)	4	BK590719
1/4" - 20 x 1 1/2" (38,1)	4	BK869705
1/4" - 20 x 1 1/2" (38,1)	4	BKDG01633 u
1/4" - 20 x 2" (50,8)	2	BKSG02681
1/4" - 20 x 2" (50,8)	4	BK590726
1/4" - 20 x 2 1/2" (63,5)	4	BKXDG01634 u
1/4" - 20 x 2 3/4" (69,9)	4	BK534553
1/4" - 20 x 3" (76,2)	4	BK534554
1/4" - 20 x 3" (76,2)	4	BKSF4648 u
1/4" - 20 x 3 1/4" (82,6)	4	BK590714
1/4" - 20 x 3 1/4" (82,6)	4	BKDGFN01637 u
1/4" - 20 x 3 1/2" (88,9)	4	BK534556
1/4" - 20 x 3 1/2" (88,9)	4	BK255654 u
1/4" - 20 x 4" (101,6)	4	BK534558
#10 - 24 x 5" (127,0)	4	BK02-156499
1/4" - 20 x 4" (101,6)	4	BK255689 u
1/4" - 20 x 4 1/2" (114,3)	4	BKDGFN01624
1/4" - 20 x 4 1/2" (114,3)	4	BK255690 u
1/4" - 20 x 5 1/8" (130,2)	4	BK534562
1/4" - 20 x 5 3/4" (146,1)	4	BKDGXFN01666
1/4" - 20 x 6" (152,4)	4	BK255657 u
1/4" - 20 x 6 1/2" (165,1)	4	BK255664 u
1/4" - 20 x 7" (177,8)	4	BK255667 u
1/4" - 20 x 8 1/2" (215,9)	4	BK255659 u
1/4" - 20 x 9" (228,6)	4	BK255674 u
1/4" - 20 x 9 1/2" (241,3)	4	BK255675 u
1/4" - 20 x 13" (330,2)	4	BK590729 u

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>5/16" - 16</b>		
5/16" - 16 x 1 1/4" (31,8)	4	BKCGR02
5/16" - 16 x 1 1/4" (31,8)	4	BKDG04632 u
3/8" - 18 x 1 3/4" (44,5) + 1/4" - 20 x 1 3/4" (44,5)	4 + 2	BK590724
5/16" - 16 x 2 3/4" (69,9)	4	BKRX03660
5/16" - 16 x 3" (76,2)	4	BKFG03645
5/16" - 16 x 3 1/4" (82,6)	4	BKRX06661
5/16" - 16 x 3 3/4" (95,3)	4	BKDG1506627
5/16" - 16 x 4" (101,6)	6	BKRX10662
5/16" - 16 x 8" (203,2) + 1/4" - 20 x 8" (203,2)	4 + 4	BK590725
<b>5/16" - 18</b>		
5/16" - 18 x 1 1/2" (38,1)	4	BKDNG16700
5/16" - 18 x 2" (50,8)	4	BKPNG16702
5/16" - 18 x 2 1/4" (57,2)	4	BK509
5/16" - 18 x 4" (101,6)	4	BKDNG16712

## 英制尺寸

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>1/2" - 13</b>		
1/2" - 13 x 1 1/2" (38,1)	4	BKDPNG25704
1/2" - 13 x 2" (50,8)	4	BKCG03602
1/2" - 13 x 2 1/2" (63,5)	4	BKDG06622 u
1/2" - 13 x 2 1/2" (63,5)	6	BKDG06635
1/2" - 13 x 3" (76,2)	4	BKCGV06603
1/2" - 13 x 3" (76,2)	6	BKDG06618
1/2" - 13 x 3 1/2" (88,9)	6	BKCP2242680
1/2" - 13 x 4" (101,6)	4	BK02-157290
1/2" - 13 x 4 1/2" (114,3)	4	BK590731
1/2" - 13 x 5 1/2" (133,4)	6	BK255693 u
1/2" - 13 x 6" (152,4)	6	BK255691 u
1/2" - 13 x 6 1/2" (165,1)	6	BK255692 u
1/2" - 13 x 7 1/2" (190,5)	6	BKDG06635 u
1/2" - 13 x 8 3/4" (222,3)	6	BK255668 u
1/2" - 13 x 9 1/4" (235)	6	BK255671u
1/2" - 13 x 9 1/2" (241,3)	6	BK255670 u
1/2" - 13 x 10" (254)	6	BK590723
1/2" - 13 x 10" (254)	6	BK255669 u
1/2" - 13 x 12 1/4" (311)	6	BK255676 u
1/2" - 13 x 12 3/4" (324)	6	BK255677 u
1/2" - 13 x 13" (330)	6	BK255678 u
1/2" - 13 x 13 1/2" (343)	6	BK255679 u
<b>5/8" - 11</b>		
5/8" - 11 x 2" (50,8)	4	BKDNG32713
5/8" - 11 x 2 3/4" (69,9)	4	BKCG06604
5/8" - 11 x 3" (76,2)	4	BK1015
5/8" - 11 x 4" (101,6)	4	BFG06646
5/8" - 11 x 4 1/4" (108,0)	4	BK02-157291
5/8" - 11 x 4 3/4" (120,7) +		
5/8" - 11 x 2 1/4" (57,2)	4 + 2	BKCG506610

尺寸 x 长度, in (mm)	数量	螺栓组件
<b>3/4" - 10</b>		
3/4" - 10 x 2 1/4" (57,2)	4	BKDPNG40706
3/4" - 10 x 2 3/4" (69,9)	4	BKCG825613
3/4" - 10 x 2 3/4" (69,9)	6	BKDG10636 u
3/4" - 10 x 3" (76,2)	4	BKDNG50708
3/4" - 10 x 3 1/2" (88,9)	4	BKCG10616
3/4" - 10 x 5" (127,0)	4	BK02-157292
3/4" - 10 x 5" (127,0) +		
3/4" - 10 x 3" (76,2)	4 + 2	BKCG510611
3/4" - 10 x 6" (152,4)	4	BK02-157293
3/4" - 10 x 9" (229)	6	BK0304
<b>1" - 8</b>		
1" - 8 x 8" (203)	4	BK1665
1" - 8 x 12" (305)	6	BK0406
<b>1 1/4" - 7</b>		
1 1/4" - 7 x 3 1/2" (88,9)	4	BKDNG63710
1 1/4" - 7 x 6" (152,4)	4	BK02-300324
<b>1 1/2" - 6</b>		
1 1/2" - 6 x 15 3/4" (400)	6	BK0608/BK0708
<b>2" - 4.5</b>		
2" - 4.5 x 22" (559)	6	BK0911
<b>2 1/2" - 4</b>		
2 1/2" - 4 x 28" (712)	6	BK1216

## 应用

根据产品的技术资料来决定正确的螺栓长度。

每个产品的技术说明书中的安装数据一节中都详细地说明了产品连接螺栓的安装要求，计算总的螺栓扭紧力以保持所推荐的最多数量的叠加阀。

每个螺栓必须具有正确的螺纹齿合长度。为了提供一个选择螺栓长度的指南，最少应考虑用 1.5 倍的螺栓直径作为长度，并且考虑材料和/或系统压力的选择。

例如：

方向控制	DG4V-3	=	21,75
流量控制	DGMFN-3	=	40,00
单向阀	DGMDC-3	=	40,00
螺纹齿合		=	7,50
(最小 1.5 x 螺纹直径)			

Total = 109,25mm

螺栓组件数 = BK 466840 (M5 x 110)