

Technisch gegevensblad

Nu-Bolt

Algemeen

De Nu-Bout combineert de halfronde I-Rod ondersteuning met een gemodificeerde pijp U-bout. Zwarte stalen U-bouten met een heet ondergedompelde gegalvaniseerde bekleding zijn de standaard. Andere keuzes zijn onder meer 316 roestvrij staal of Sermagard, een corrosie-resistente laag die zelfs in de slechtste condities op zee betrouwbaar is. Alle U-bouten zijn voorzien van kruisgekoppelde polyolefine (polyshrink) op de steel. De halfronde I-Rod die de pijp van de buishouder

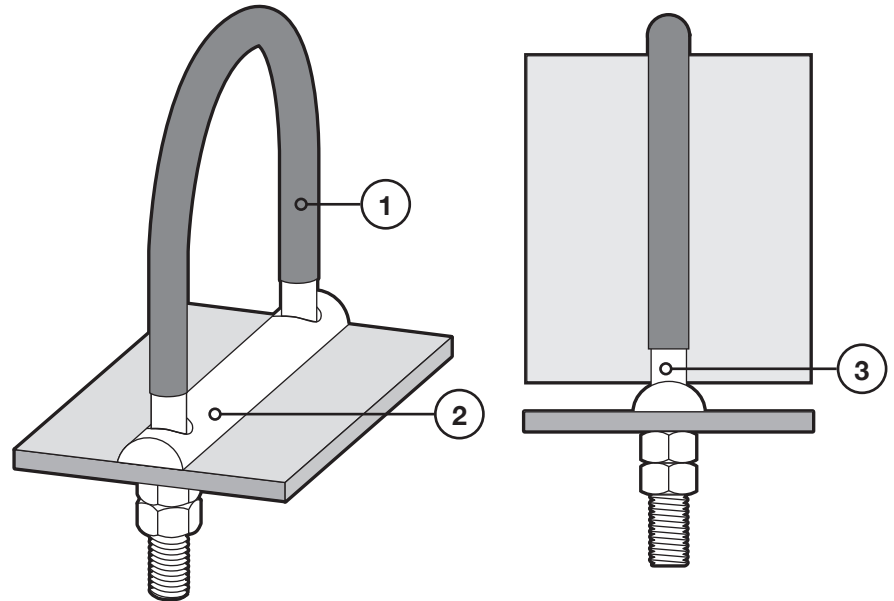
Specificatie van polyshrink (Punt 1)

Eigenschappen	Value
Max. gebruikstemp.	230°F [110°C]
Min. gebruikstemp..	-67°F [-55°C]
Treksterkte	2100 psi [14.47 MPa]
Verlenging	550%
Soortelijk gewicht	1.1
Hitte Schok	Geen barsten/stroom
Hardheid	50D
Dialectische sterkte	12700 V/mil [500 kV/mm]
Weerstandsvormen volume	1016 Ohm/cm
Waterabsorptie	0.1% Hygroscopisch
Hechtsterkte	
voor staal D1000	35 pli [61 N/cm]
voor PVC D1000	20 pli [35 N/cm]

U-bout belastingswaarden (Punt 3)

U-bout gewichten omvatten niet de I-Rod thermoplas.

Diameter bout in voorraad Ø in [mm]	Max. belasting @ 343°C] lb [kg]	Max. belasting @ 750°F [400°C] lb [kg]
1/4 [6]	485 [220]	435 [195]
3/8 [10]	1220 [550]	1090 [495]
1/2 [13]	2260 [1025]	2020 [915]
5/8 [16]	3620 [1645]	3230 [1465]
3/4 [19]	5420 [2460]	4830 [2195]
7/8 [22]	7540 [3425]	6730 [3055]
1 [25]	9920 [4500]	8850 [4020]



Specificaties van I-Rod, I-Rod HT, en PEEK (Punt 2)

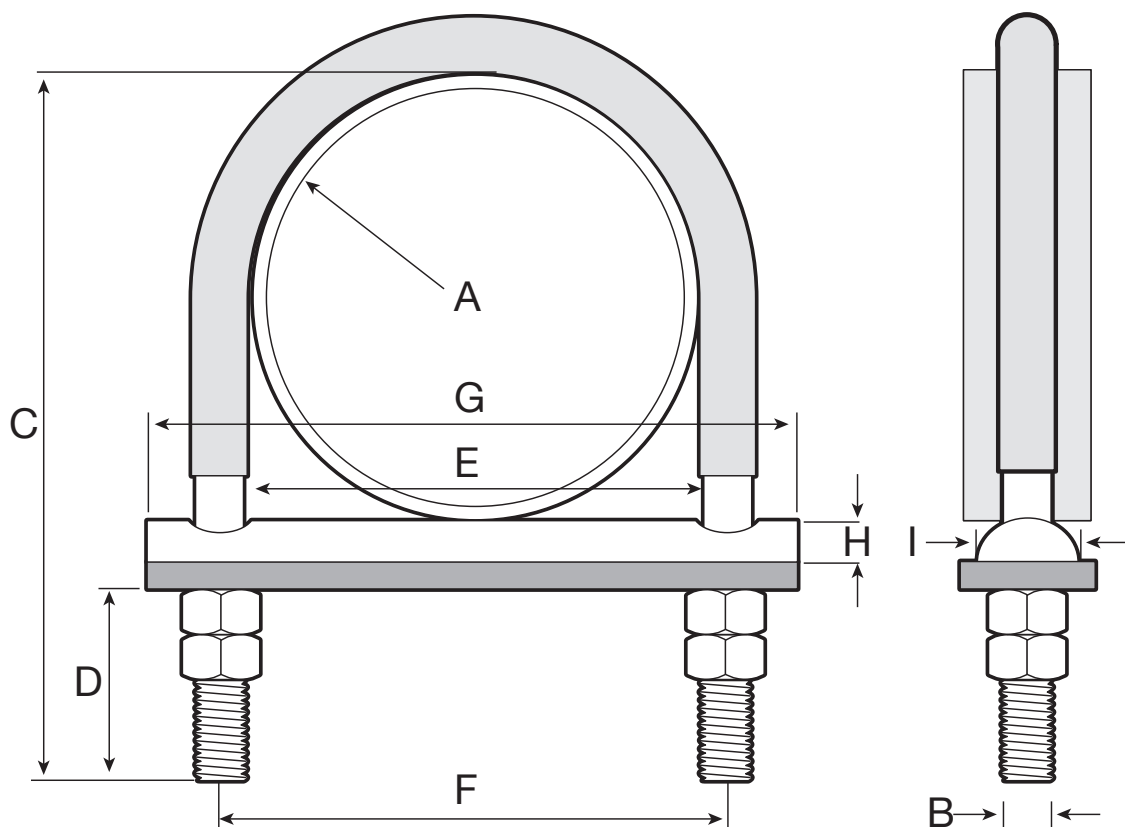
I-Rod thermoplas is standaard voor de meeste Nu-Bout assemblies. In extreme omstandigheden kunnen I-Rod HT of PEEK gebruikt worden.

Eigenschappen	I-Rod	I-Rod HT	PEEK niet gevuld
Soortgelijke massa 73°F [23°C]	0.0509 lb/in³ [1.41 g/cm³]	0.0462 lb/in³ [1.28 g/cm³]	0.047 lb/in³ [1.31 g/cm³]
Treksterkte	9.4 ksi [64.8 MPa]	16.5 ksi [114 MPa]	16 ksi [110 MPa]
Trekcoëfficiënt	380 ksi [2.62 GPa]	500 ksi [3.45 GPa]	500 ksi [3.44 GPa]
Verlenging bij breuk	30-60%	30-60%	20%
Buigingscoëfficiënt	400 ksi [2.76 GPa]	500 ksi [3.45 GPa]	600 ksi [4.13 GPa]
Buigingssterkte	13 ksi [82.7 MPa]	20 ksi [138 MPa]	25 ksi [172 MPa]
Druksterkte	15 ksi [103 MPa]	22 ksi [152 MPa]	20 ksi [127 MPa]
Wrijvingscoëfficiënt	0.25	0.42	-
IZOD-slag	1 ft-lb/in [0.534 J/cm]	0.5 ft-lb/in [0.267 J/cm]	1 ft-lb/in [0.534 J/cm]
Rotshardheid M/R	88/120	112/125	100/126
Max. werkttemp..	181°F [83°C]	340°F [171°C]	480°F [249°C]
Smeltpunt	329°F [168°C]	410°F [210°C]	644°F [340°C]
Coëfficiënt van lineaire uitzetting	54 µin/in/°F [97.2 µm/m/°C]	31 µin/in/°F [55.8 µm/m/°C]	-
Hitte-afwijking	220°F [104°C]	400°F [204°C]	320°F [160°C]
Brandbaarheidscijfer	HB	V/O	V/O
Dialectic Strength	420 V/mil [16.5 kV/mm]	830 V/mil [32.7 kV/mm]	480 V/mil [18.9 kV/mm]

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Gewicht Nu-Bout

(A) Om op de pijp te passen NPS [DN]	Gewicht Nu-Bout lb [kg]
1/2 [15]	0.12 [0.05]
3/4 [20]	0.15 [0.07]
1 [25]	0.15 [0.07]
1 [25]	0.4 [0.18]
1 1/4 [32]	0.45 [0.21]
1 1/2 [40]	0.5 [0.23]
2 [50]	0.5 [0.23]
2 1/2 [65]	1.0 [0.45]
3 [80]	1.0 [0.45]
4 [100]	1.15 [0.53]
5 [120]	1.5 [0.65]
6 [150]	2.5 [1.14]
8 [200]	3.0 [1.36]
10 [250]	5.0 [2.27]
12 [300]	7.5 [3.40]
14 [350]	8.5 [3.86]
16 [400]	9.5 [4.32]
18 [450]	13.5 [6.14]
20 [500]	15.0 [6.82]
24 [600]	19.0 [8.64]
26 [660]	20.5 [9.30]
28 [700]	21.5 [9.75]
30 [750]	22.0 [10.0]
36 [900]	23.5 [10.7]



Afmetingen Nu-Bout

(A) Passende pijpmaten NPS [DN]	(B) Voorraad U-bout Ø in [mm]	(C) Hoogte U-bout in [mm]	(D) Lengte schroefdraad in [mm]	(E) Opening binnenkant in [mm]	(F) Boutcentra in [mm]	(G) Lengte I-Rod in [mm]	(H) Hoogte I-Rod in [mm]	(I) Breedte I-Rod in [mm]
1/2 [15]	1/4 [6]	3 1/4 [83]	2 3/8 [60]	15/16 [24]	1 3/16 [30]	2 1/2 [64]	5/16 [8]	3/4 [19]
3/4 [20]	1/4 [6]	3 5/16 [84]	2 3/8 [60]	1 1/8 [29]	1 3/8 [35]	3 [76]	5/16 [8]	3/4 [19]
1 [25]	1/4 [6]	3 7/16 [87]	2 3/8 [60]	1 3/8 [35]	1 5/8 [41]	3 [76]	5/16 [8]	3/4 [19]
1 [25]	3/8 [10]	3 7/16 [87]	2 3/8 [60]	1 3/8 [35]	1 3/4 [45]	3 [76]	7/16 [11]	1 [25]
1 1/4 [32]	3/8 [10]	3 3/4 [95]	2 1/2 [64]	1 3/4 [45]	2 1/8 [54]	3 1/2 [89]	7/16 [11]	1 [25]
1 1/2 [40]	3/8 [10]	4 [102]	2 1/2 [64]	2 [51]	2 3/8 [60]	4 [102]	7/16 [11]	1 [25]
2 [50]	3/8 [10]	4 1/2 [114]	2 1/2 [64]	2 7/16 [62]	2 13/16 [71]	4 1/2 [114]	7/16 [11]	1 [25]
2 1/2 [65]	1/2 [13]	5 1/4 [133]	3 [76]	2 15/16 [75]	3 7/16 [87]	5 [127]	7/16 [11]	1 [25]
3 [80]	1/2 [13]	5 13/16 [148]	3 [76]	3 9/16 [91]	4 1/16 [103]	6 [152]	7/16 [11]	1 [25]
4 [100]	1/2 [13]	6 13/16 [173]	3 [76]	4 9/16 [116]	5 1/16 [129]	7 [178]	7/16 [11]	1 [25]
5 [120]	1/2 [13]	7 13/16 [198]	3 [76]	5 5/8 [143]	6 1/8 [156]	8 [203]	7/16 [11]	1 [25]
6 [150]	5/8 [16]	9 1/2 [241]	3 3/4 [95]	6 3/4 [172]	7 3/8 [187]	9 [229]	7/16 [11]	1 [25]
8 [200]	5/8 [16]	11 1/2 [292]	3 3/4 [95]	8 3/4 [222]	9 3/8 [238]	11 [279]	7/16 [11]	1 [25]
10 [250]	3/4 [19]	13 13/16 [351]	4 [102]	10 7/8 [276]	11 5/8 [295]	13 1/2 [343]	11/16 [17]	1 1/2 [38]
12 [300]	7/8 [22]	16 1/16 [408]	4 1/4 [108]	12 7/8 [327]	13 3/4 [349]	16 [406]	11/16 [17]	1 1/2 [38]
14 [350]	7/8 [22]	17 5/16 [440]	4 1/4 [108]	14 1/8 [359]	15 [381]	17 [432]	11/16 [17]	1 1/2 [38]
16 [400]	7/8 [22]	19 5/16 [491]	4 1/4 [108]	16 1/8 [410]	17 [432]	19 [483]	11/16 [17]	1 1/2 [38]
18 [450]	1 [25]	21 11/16 [551]	4 3/4 [121]	18 1/8 [460]	19 1/8 [486]	21 1/2 [546]	11/16 [17]	1 1/2 [38]
20 [500]	1 [25]	23 11/16 [602]	4 3/4 [121]	20 1/8 [511]	21 1/8 [537]	23 1/2 [597]	11/16 [17]	1 1/2 [38]
24 [600]	1 [25]	27 11/16 [703]	4 3/4 [121]	24 1/8 [613]	25 1/8 [638]	27 1/2 [699]	11/16 [17]	1 1/2 [38]
26 [660]	1 [25]	29 11/16 [754]	4 3/4 [121]	26 1/8 [664]	27 1/8 [689]	29 1/2 [749]	11/16 [17]	1 1/2 [38]
28 [700]	1 [25]	31 11/16 [805]	4 3/4 [121]	28 1/8 [714]	29 1/8 [740]	31 1/2 [800]	11/16 [17]	1 1/2 [38]
30 [750]	1 [25]	33 11/16 [856]	4 3/4 [121]	31 1/8 [765]	31 1/8 [791]	33 1/2 [851]	11/16 [17]	1 1/2 [38]
36 [900]	1 [25]	39 11/16 [1008]	4 3/4 [121]	36 1/8 [918]	37 1/8 [943]	39 1/2 [1003]	11/16 [17]	1 1/2 [38]