

Rod

Weima Original

R11—Rod, Valve

Standard part of a rod type pump used to connect the plunger to the rod string.

Part No.	API No.
R11-20 (XX) -L	R11-20
R11-25 (XX) -L	R11-20
R11-30 (XX) -L	R11-20

Note:

- 1) “XX” is Material identification symbol;
- 2) L is standard strength for valve rod.



1. Pump Material for Rod, Valve

Identification Symbol	Description	Base core hardness	Base material	Base Material Minimum Yield Strength MPa (ksi)
A1	Steel	90HRB~23HRC	UNS G10XX0	345 (50)
A2	Low Alloy Steel	90HRB~23HRC	UNS G41XX0	345 (50)
A3	Low Alloy Steel	90HRB~23HRC	UNS G86XX0	345 (50)
A4	Ni-Cu Alloy	83HRB~23HRC	UNS N04400	345 (50)
C5	Brass	60HRB~90HRB	UNS C46400	276 (40)
C6	Stainless steel	79HRB~23HRC	UNS S30400	241 (35)

2. Valve Rod Length PL

Nominal Barrel Length Minus Nominal Plunger Length ft(m)	For Pumps Run in 1.900, 2 3/8 and 2 7/8 in. OD Tubing		For Pumps Run in 3 1/2 in. OD Tubing	
	Top Anchor	Bottom Anchor	Top Anchor	Bottom Anchor
	In. (m)			
6(1.829)	73 (1.854)	67 (1.702)	72(1.829)	66 (1.676)
7(2.134)	85 (2.159)	79 (2.007)	84(2.134)	78 (1.981)
8(2.438)	97 (2.464)	91 (2.311)	96(2.438)	90 (2.286)
9(2.743)	109 (2.769)	103 (2.616)	108(2.743)	102 (2.591)
10(3.048)	121 (3.073)	115 (2.921)	120(3.048)	114 (2.896)
11(3.353)	133 (3.378)	127 (3.226)	132(3.353)	126 (3.200)
12(3.658)	145 (3.683)	139 (3.531)	144(3.658)	138 (3.505)
13(3.962)	157 (3.988)	151 (3.835)	156(3.962)	150 (3.810)
14(4.267)	169 (4.293)	163 (4.140)	168(4.267)	162 (4.115)
15(4.572)	181 (4.597)	175 (4.445)	180(4.572)	174 (4.420)
16(4.877)	193 (4.902)	187 (4.750)	192(4.877)	186 (4.724)
17(5.182)	205 (5.207)	199 (5.055)	204(5.182)	198 (5.029)
18(5.486)	217 (5.512)	211 (5.359)	216(5.486)	210 (5.334)
19(5.791)	229 (5.817)	223 (5.664)	228(5.791)	222 (5.639)
20(6.096)	241 (6.121)	235 (5.969)	240(6.096)	234 (5.944)
21(6.401)	253 (6.426)	247 (6.274)	252(6.401)	246 (6.248)
22(6.706)	265 (6.731)	259 (6.579)	264(6.706)	258 (6.553)
23(7.010)	277 (7.036)	271 (6.883)	276(7.010)	270 (6.858)
24(7.315)	289 (7.341)	283 (7.188)	288(7.315)	282 (7.163)
25(7.620)	301 (7.645)	295 (7.493)	300(7.620)	294 (7.468)
26(7.925)	313 (7.950)	307 (7.800)	312(7.925)	306 (7.772)
27(8.230)	325 (8.255)	319 (8.103)	324(8.230)	318 (8.077)
28(8.534)	337 (8.560)	331 (8.407)	336(8.534)	330 (8.382)
29(8.839)	349 (8.865)	343 (8.712)	348(8.839)	342 (8.687)
30(9.144)	361 (9.169)	355 (9.017)	360(9.144)	354 (8.992)

Notes: Nominal barrel length including extensions on heavy wall barrels.



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