

Typical Installation Example, Mounting, & Safety Tips

- a. Mounting Panel
- b. Lug / Wire
- c. Mounting Nut
- d. Lock Washer
- e. Electrode Lug Nut(s)

* Single Outside Nut on HPR400

Thread	Amps (RMS)	Model	Length x Diameter Inches (mm)	Torque Rating for Electrode Lug Nuts (e)	Torque Rating for Mounting Panel Nut (c)
SAE (Inch)	50	HPR050	2.17" x 0.94" (58.1 x 23.9)	14 in-lbs (1.6 N·m)	60 in-lbs (6.7 N·m)
	100	HPR100	2.56" x 1.00" (65.0 x 25.4)	45 in-lbs (5 N·m)	100 in-lbs (11 N·m)
	175	HPR175	3.35" x 1.13" (85.1 x 28.7)	120 in-lbs (13 N·m)	200 in-lbs (22 N·m)
	250	HPR250	4.00" x 1.25" (101.6 x 31.8)	250 in-lbs (28 N·m)	300 in-lbs (34 N·m)
Metric	55	HPR055	2.09" x 0.88" (53.0 x 22.3)	14 in-lbs (1.6 N·m)	60 in-lbs (6.7 N·m)
	140	HPR140	2.63" x 1.00" (66.7 x 25.3)	70 in-lbs (8 N·m)	100 in-lbs (11 N·m)
	400	HPR400	3.70" x 1.31" (93.0 x 33.3)	200 in-lbs (22 N·m)	300 in-lbs (34 N·m)
Next Generation	300	HPR300	1.34" x 1.38" (34.0 x 35.0)	144 in-lbs (16 N·m)	300 in-lbs (34 N·m)

Safety Tips

- ✓ Never install, adjust, or touch a filter while circuit is active!
- ✓ Disable power system before attempting service
- ✓ Observe safe handling techniques appropriate for the voltage & current levels
- ✓ Cover exposed electrode nuts
- ✓ Avoid accidental contact with metal, including jewelry

Installation Tips

- ✓ Tighten the electrode nuts to the torque specified with the two wrench method
- ✓ Put Lug/Wire/Bus Bar against inner nut (or flange for HPR400)
- ✓ Put lockwasher on "last", closest to outside nut
- ✓ Use Lugs with minimum size holes to increase current flow area
- ✓ Do Not Use thread locker

Application Tips

- ✓ The filter should be mounted in a grounded shielding panel
- ✓ Observe temperature, current, & voltage limits
- ✓ For applications requiring repeated installation, use Belleville spring washers - Current Handling may be slightly reduced for two-nut units
- ✓ Use adequately sized wires, lugs, or bus bars for current level