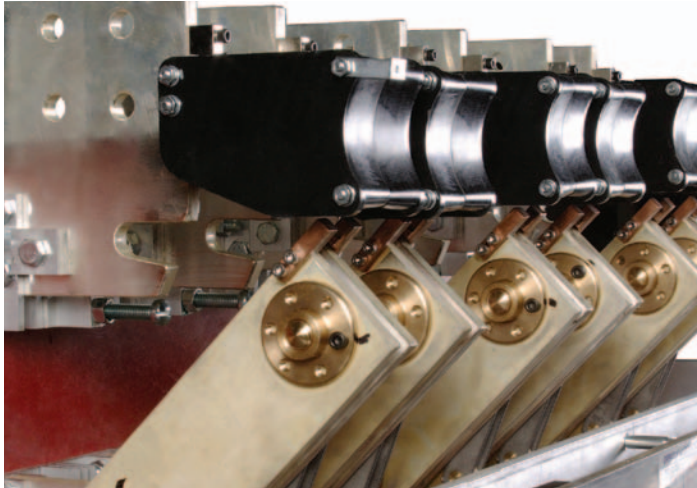


Custom solutions



Custom bolted pressure contact switch with Cam-Lok™ receptacles and other special features

Pringle® bolted pressure contact switches have helped pioneer development of high-quality electrical products for commercial and industrial applications since 1891. Eaton's Pringle bolted pressure contact switch was the first in the industry and is a worldwide standard in high-current switching applications. With over 100 years of high-current switch experience, our engineers have the expertise to create a disconnect product specially suited to your application, tailoring it to your high-current requirements and operational needs. All switches use the bolted-contact principle to ensure the highest integrity, highest efficiency connection.

In addition to a great history, Pringle switches have a significant role in today's vast array of market segments and emerging markets. The table on the back of this document illustrates the array of products that can be designed and manufactured—please contact Eaton to explore specific configurations.

Why a bolted pressure contact switch works better

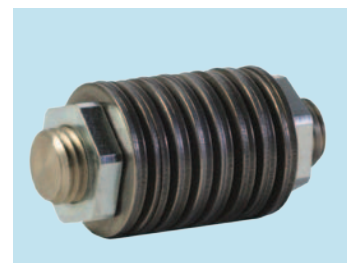
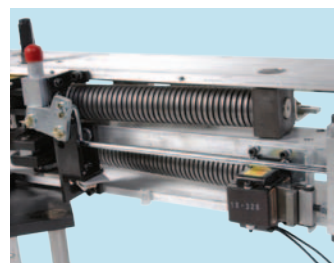
- Conducts high current with greater efficiency than knife, spring or butt contact devices
- All Pringle switches feature bolted pressure contacts. The result: Blade contact surfaces are bolted closed at a pressure of 600 PSI at both the hinge and the jaw ends. The benefit: Current-conducting efficiency is the equivalent of a bolted busbar connection
- The entire switch bolting mechanism is non-magnetic to ensure that inductive heating cannot occur in any of the switch components. This enables long-term switch reliability
- 100% rated devices using Class L fuses
- Rated up to 200,000 AIC

Spring mechanism

The unique spring design is created by a series of concave-convex washers. The paired washer spring design provides a higher force/distance ratio, making it easier to operate the mechanism. Should any pair of washers become inoperable for any reason, the entire spring assembly will still be operable by means of the remaining pairs. This would not be the case if a coil spring were to fracture or fatigue.



Powering Business Worldwide



Segment	Applications	Ratings ① ②	Key Features	Environmental Ratings	Options
Commercial 	Government buildings K–12 schools Universities Amusement parks Retail Stadiums Hotels Hospitals	Load-break: 208, 480, 600 Vac 800–6000A Non-load-break: >600 Vac and >250 Vdc up to 15 kV 800–35,000A	Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology Visible blade	Available in open designs Enclosures: NEMA® 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk® key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation
Industrial 	Steel mills Mining Manufacturing facilities Distribution centers	Load-break: 480, 600 Vac, 250 Vdc 800–6000A Non-load-break: >600 Vac and >250 Vdc up to 15 kV 800–35,000A	Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology Visible blade	Available in open designs Enclosures: NEMA 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation
Port Electrification 	Cold-ironing Pollution reducing Temporary power Shore-to-ship power	Load-break: 480, 600 Vac 800–6000A Non-load-break: >600 Vac and >250 Vdc up to 15 kV 800–10,000A	Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology Visible blade	Available in open designs Enclosures: NEMA 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation, marine lighting, Cam-Lok™ / Posi-Lok™
Transit 	Commuter rail Light rail People movers (APM) Airport trams	Non-load-break: 750–1500 Vdc 800–4000A One-, two- and three-pole	Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology Visible blade	Available in open designs Enclosures: NEMA 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation, direct-drive operation, hook-stick operation
Alternative Energy 	Solar Wind Nuclear	600–1500 Vdc ③ 800–3000A	Backfeed capability on AC systems Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology provides the highest efficiency Visible blade	Available in open designs Enclosures: NEMA 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation
Utility 	Utility	Non-load-break: 5–27 kV 1600–6000A	Spring mechanism on all load-break products Fusible or non-fusible Bolted pressure technology Visible blade	Available in open designs Enclosures: NEMA 1, 3R, 12, 4X stainless (304 and 316 grade), 4X non-metallic— consult factory	Blown fuse protection, auxiliary contacts, phase failure protection, indicator lights, Kirk key provisions, custom lugs, undervoltage protection, remote operation, ground fault protection, motor operation

① Listed to UL® 977, CSA® certified to C22.2 No.4, 240–600 Vac, 800–4000A.

② Many combinations of AC and DC are available—not necessarily shown per segment. Contact Eaton for more information.
Eaton maintains a dedicated service team that has over 100 years of combined experience in the exclusive service and repair of Pringle switches.

③ Contact factory for load-break and non-load-break options.

Eaton Corporation
 Electrical Sector
 1111 Superior Avenue
 Cleveland, OH 44114 USA
 Eaton.com

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For questions,
 information and
 quotations regarding
 custom switch solutions
 and/or service, please call
888-329-9272, or email
at Pringle@eaton.com.



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