



Douglas Electrical Components

Ductorseal® Hermetic Feedthrus

StudSeal™ Hermetic Stud Feedthrus



HIGH CURRENT FEEDTHRU SEALS FOR

- Air Conditioning and Refrigeration Compressors
- Semiconductor Processing Equipment
- Vacuum Furnaces
- High Voltage Penetrations
- Power Distribution Equipment

Contact us to learn how our products can work for you
973.627.8230 www.douglaselectrical.com



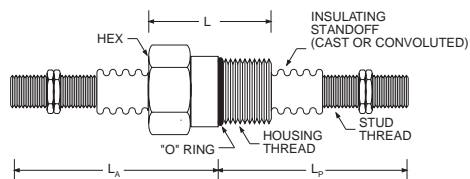
Certificate No. 3415

Douglas Electrical has established itself as the leading manufacturer of sealed conductors for penetration of vacuum and pressure vessels. In particular, DECo has emerged as the market leader in high current, high voltage penetrations of air conditioning and refrigeration compressors. DECo's reputation for custom designing high reliability, easy to

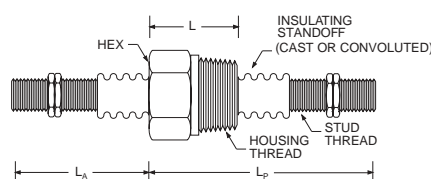
install, high volume motor terminals and plates is unsurpassed in the industry. Furthermore, DECo manufactures a complete line of custom designed stud penetrations for semiconductor manufacturing equipment, vacuum furnaces and power distribution equipment.

Sample Designs

Faceseal



NPT Designs



Also Available

- Multi-pin Plates
- Sealed buss bars
- Any Conductor 0.030" to 1.5" diameter
- Housing sizes as small as 1/4", as large as 3.5" diameter

Faceseal

Stud Thread	Housing Thread	Housing Material	L _A	L _P	L	HEX	Maximum Current	Catalog Number
1/4" - 20	3/4" - 16	S.S.	1.95"	3.14"	1.19"	1.0"	105 amps	27404
3/8" - 16	3/4" - 16	S.S.	1.95"	3.14"	1.19"	1.0"	275 amps	27405
1/2" - 13	7/8" - 14	S.S.	2.0"	3.36"	1.34"	1 ¹³ / ₁₆ "	500 amps	27406
5/8" - 11	1 ¹ / ₁₆ " - 12	S.S.	4.36"	3.31"	1.27"	1 ³ / ₈ "	750 amps	27407

"O" Ring is nitrile rubber. See page 59 for mounting boss dimensions. S.S. = Stainless Steel.

NPT Designs

Stud Thread	Housing Thread	L _A	L _P	L	HEX	Maximum Current	Catalog Number
1/4" - 20	1/2" NPT	2"	3.09"	1.09"	7/8"	105 amps	27408
3/8" - 16	3/4" NPT	2"	3.17"	1.17"	1 ¹ / ₈ "	275 amps	27409
1/2" - 13	1" NPT	2"	3.36"	1.36"	1 ³ / ₈ "	500 amps	27410
5/8" - 11	1" NPT	3.38"	4.29"	1.36"	1 ³ / ₈ "	750 amps	26212

Douglas Electrical offers the widest range of sealed conductors for high pressure and vacuum applications. Please review the details offered in the Douglas Electrical catalog on pages 44 thru 47 for more information. Multi-pin plates from 1.5" to 9" square have been manufactured in volume, with current capacities from 10 to 1200 amps. Our flexible technology affords far greater design latitude than our competitors and provides customers with custom solutions at off-the-shelf prices.

Alternative Design Options

Thread	Housing Thread	Maximum Current
2-56	1/8" NPT	18 amps
4-40	1/8" NPT	24 amps
6-32	1/4" NPT	33 amps

Thread	Housing Thread	Maximum Current
8-32	1/8" NPT	45 amps
10-24	3/8" NPT	58 amps
1/4"-20	3/4" NPT	105 amps

Specification Options

- Insulation:** Epoxy
- Standoff:** Epoxy or Convoluted
- Conductor:** Brass or Copper
- Nuts:** Brass
- Pressure:** 10⁻⁸ Torr to 10,000 psi
- Temperature:** -160°C to 200°C+
- Voltage:** to 15 kV
- Housing:** Brass, SS, Epoxy

*Please call with application details to ensure proper selection of housing and conductor. *Radial "O" ring designs are also available.



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