



HYDRO-PAC INC.

**High-Pressure
Electrical Sealing
Glands**



HIGH-PRESSURE Electrical Sealing Glands

Instrument-Wire and Electrode Sealing Glands

are manufactured by Hydro-Pac to conduct instrument signals and electrical power into high-pressure chambers. They are designed for use with gases or liquids that are nonconductive.

Ratings are 30,000 psi, 45,000 psi, 60,000 psi, and 200 F. Electrode Glands are available for internal installation. They are attached inside the pressure chamber through a drilled hole in the bulkhead. Sealing is initiated by gland preload and is maintained by pressure.

Features

Instrument-Wire Glands and Electrical Sealing Glands feature:

- Mounting is easily accomplished by drilling a hole in the pressure chamber bulkhead. No threading is required.
- Electrodes are pressure actuated; seal is maintained by pressure.
- Instrument glands are offered with eight or twelve wires.
- Electrodes are copper for high-current capacity.
- Multiwire instrument glands may be specified with compensation wire for standard thermocouples.

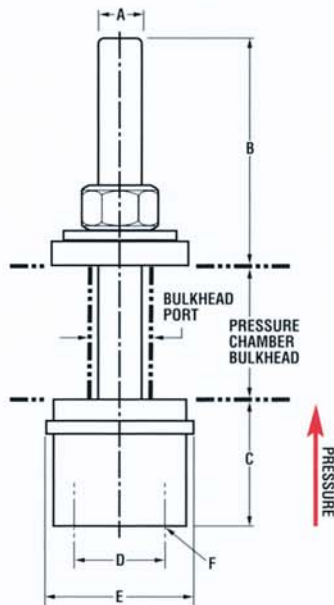
Electrode Gland



Specifications

Electrode Sealing Glands

Catalog	Pressure		Electrical	
	psi	MPa	Volts	Amps
GE45-3	45,000	310	300	100
GE45-4	45,000	310	300	150
GE45-6	45,000	310	300	250
GE45-8	45,000	310	300	350
GE45-12	45,000	310	300	600
GE45-16	45,000	310	300	800
GE45-20	45,000	310	300	1000
GE45-24	45,000	310	300	1200



Dimensions

Catalog No.	A	B		C		D		E		F	Bulkhead Port	
	Thread	in	mm	in	mm	in	mm	in	mm	Thread	in	mm
GE45-3	10-32 NF	0.88	20	1.25	30	—	—	0.88	20	10-32 NF	0.25	6
GE45-4	1/4-28 NF	1.25	30	1.25	30	0.75	19	1.12	30	10-32 NF	0.31	8
GE45-6	3/8-24 NF	1.75	45	1.31	35	0.81	21	1.38	35	1/4-28 NF	0.44	11
GE45-8	1/2-20 NF	2.25	60	1.62	40	1.31	33	1.62	40	1/4-28 NF	0.58	15
GE45-12	3/4-16 NF	3.00	75	1.88	50	1.50	38	2.12	55	5/16-24 NF	0.84	21
GE45-16	1-14 NS	3.88	100	2.38	60	1.94	49	2.62	65	3/8-24 NF	1.12	28
GE45-20	1 1/4-12 NF	4.25	110	3.00	75	2.25	57	3.12	80	1/2-20 NF	1.38	35
GE45-24	1 1/2-12 NF	4.50	115	3.50	90	2.75	70	3.88	100	5/8-18 NF	1.62	40

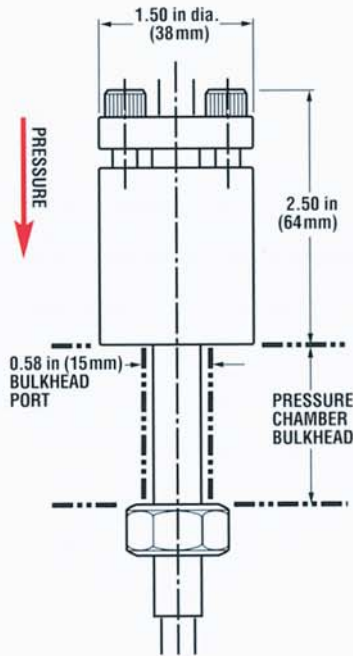


Instrument-Wire Glands

are available for either internal or external installation. Internal glands are attached inside the pressure chamber through a drilled hole in the bulkhead. External glands are attached outside the pressure chamber with a standard high-pressure connection and 9/16 inch high-pressure tubing.

Internal and external glands are furnished with 24 inches of 24-gauge, single-conductor extension wire on both ends. Longer wire is available.

- Amperage ratings are based on copper wires. Reductions in these ratings are required when using other wire materials.



Internal Wire Gland



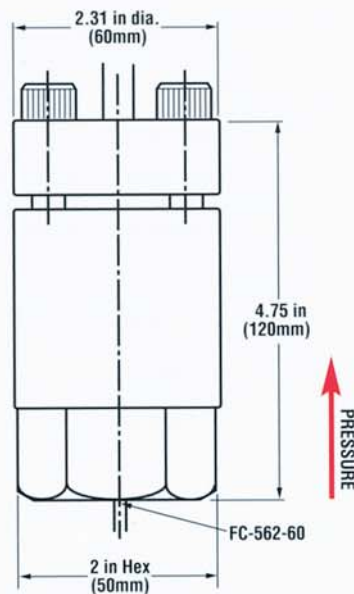
Specifications

Internal Gland

Catalog	Pressure		Electrical		No. of Wires
	psi	MPa	Volts	Amps	
GI30-12IN	30,000	200	25	2	12
GI45-08IN	45,000	310	25	2	8

External Gland

Catalog	Pressure		Electrical		No. of Wires
	psi	MPa	Volts	Amps	
GI30-12EX	30,000	200	25	2	12
GI60-08EX	60,000	415	25	2	8



External Wire Gland



When ordering or inquiring about Electrical Sealing Glands please specify:

- Catalog number
- Bulkhead thickness for internal glands
- Compensated wire if required

Other Products

Hydro-Pac designs and manufactures equipment to generate, control and monitor high-pressure fluids and gases.

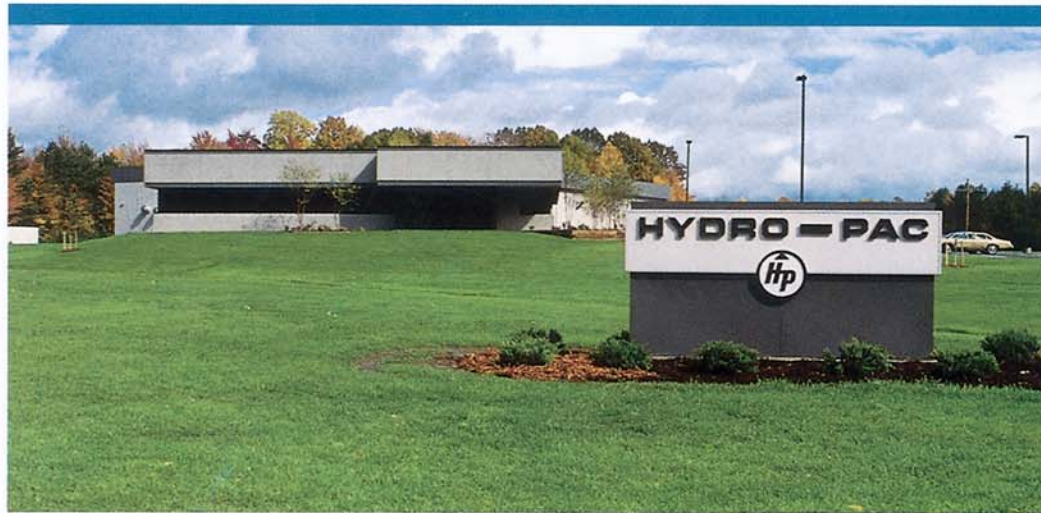
- Low-pressure gas compressors 1000 to 10,000 psi, 3 to 40 hp.
- Large high-pressure gas compressors 2000 to 100,000 psi through 200 hp.
- High-pressure pumps 10,000 to over 100,000 psi, 1/2 to 400 hp.
- Large port valves, fittings and tubing for high-flow requirements at 40,000 to 100,000 psi.

- Electrical power and thermocouple glands to operate furnaces and electronic equipment in pressurized environments to 60,000 psi.

- Large high-pressure vessels designed and manufactured in accordance with ASME Code Section VIII, Divisions 1, 2 and 3.

- Complete high-pressure systems.

Call or write Hydro-Pac Inc. for your pressure equipment requirements. Our complete Product Catalog is available upon request.



HYDRO - PAC INC.

P.O. Box 921
7470 Market Road
Fairview, PA 16415 USA

800-394-1511

814-474-1511 • Fax 814-474-3421
www.hydropac.com
e-mail: hydropac@hydropac.com