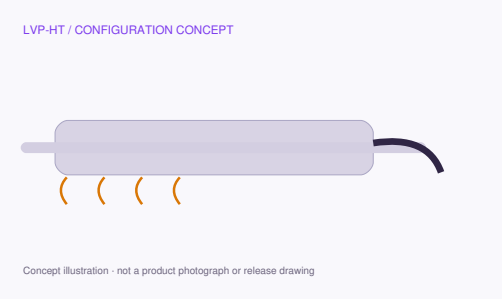
LVP-HT / Engineering selection brief

PRELIMINARY REQUEST WORKSHEET - not a released model datasheet or dimensional drawing

Review temperature and pressure as one duty profile.

The operating limit belongs to a complete assembly at stated conditions. Describe the hot zone, pressure boundary, media, cable transition and electronics location before selecting a requested temperature or pressure.



Owned configuration concept only. No scale, dimensional tolerance or release status is implied.

Continuous temperature or a short peak?

Supply hot-zone temperature versus time, dwell, cycles, ramp rate and cold-end conditions. State where temperatures are measured on the coil, cable transition and connector.

Requests to 220 degC or 350 degC are review targets; a headline peak temperature does not establish continuous duty.

What carries the pressure boundary?

Define operating/proof conditions, pressure direction, fluid, sealing surface, thread or flange, trapped volumes and the required leak-test method.

A 250 bar request is not a rating at every temperature, medium or mounting arrangement.

How far away is the conditioner?

Locate the electronics outside its reviewed temperature exposure. Provide carrier, cable length, feedthrough, screen and the existing control-card requirements.

Passive AC construction alone does not establish qualification for steam, subsea, radiation, aviation or nuclear service.

Read installation and application conditions on the family page

LVP-HT / Requested configurations & review

REQUEST REFERENCES ONLY - final dimensions, interface and acceptance follow the agreed drawing and quotation

Requested travel / body / interface envelope

Travel: +/-2.5 to +/-300 mm

Body / installation: 316L / Inconel housing by configuration

Interface: Passive AC / remote LVP-AMP

LVP-HT-REQ-2P5 - +/-2.5 mm (5 mm total / 0.197 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-10 - +/-10 mm (20 mm total / 0.787 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-25 - +/-25 mm (50 mm total / 1.969 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-50 - +/-50 mm (100 mm total / 3.937 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-100 - +/-100 mm (200 mm total / 7.874 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-200 - +/-200 mm (400 mm total / 15.748 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-HT-REQ-300 - +/-300 mm (600 mm total / 23.622 in)
19.05 mm (3/4 in) | Free unguided core | Passive AC-LVDT + matched conditioner

Proposed acceptance sequence - agree method and limits before the order

1. Approve the joint duty profile

Record the configuration drawing, materials, seals, cable and agreed simultaneous thermal/pressure conditions. Confirm the method and responsible test organization before ordering.

2. Measure before and after exposure

Plan baseline displacement checks, the specified exposure sequence and post-exposure checks. Define zero shift, sensitivity change and acceptance limits in advance.

3. Test the complete boundary

Use the agreed pressure/leak and electrical checks for the released assembly. A coil-only test or room-temperature pressure result cannot establish the whole duty profile.

General technical background / not LVP product evidence

TE: AC and DC LVDT operating principles

Background on transformer sensing and integral signal conditioning; not LVP performance evidence.

Beckhoff: LVDT and half-bridge connection types

Examples of distinct input topologies, not a universal LVP connector assignment.

Download date/revision must not replace a controlled model drawing. Requested extremes are not automatically combinable. Price, quantity/MOQ, lead time, delivery basis and warranty follow the quotation.

LVP-HT / Fillable engineering RFQ

Complete in a PDF reader, save a copy, verify the saved entries and email it to inquiry@lvdtsensor.com.

All fields are blank. Entries remain in your local PDF until you choose to send it. State units and distinguish bipolar +/- range from total travel. No files are automatically uploaded.

Company / contact

Reply email

Required travel and hot / cold datums

Continuous / peak temperatures, dwell and cycles

Operating / proof pressure and pressure direction

Medium, wetted parts and sealing interface

Mounting material, flange/thread and thermal movement

Cable transition / connector temperature limits

Remote conditioner location and cable length

Carrier, sensitivity, phase and winding topology

Required leak / environmental / qualification tests

Quantity, destination and required date

Drawing revision, STEP/IGES, pinout, calibration and qualification scope

This form is an engineering request, not a purchase order, compatibility approval, specification release or test certificate. Attach the original nameplate and drawing to your email where available.