

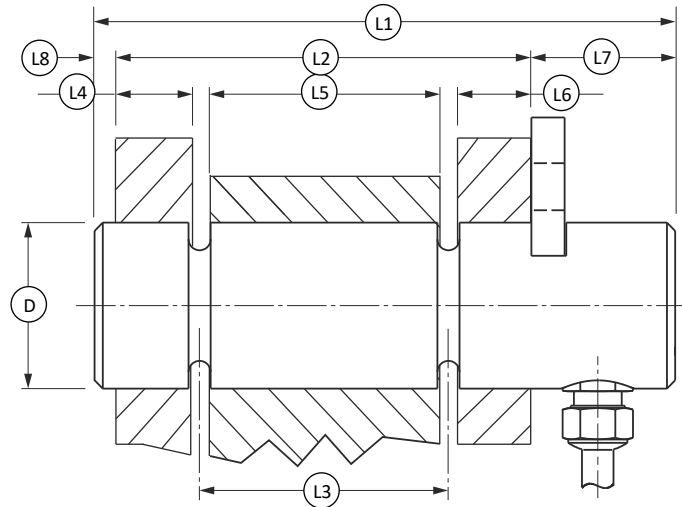
LP STAINLESS STEEL LOAD PIN CONFIGURATOR (U.S. & METRIC)

DIMENSIONAL INFORMATION

Notes for filling in configurator:

1) Minimum information required for quoting is in **BOLD** and designated with *.

2) Anything else can be left blank and we will make our best guess and specify on quote.



Dimension	in	mm	Dimension	in	mm
(L1)			(L2)*		
(L3)			(L4)*		
(L5)*			(L6)*		
(L7)			(L8)		
(ØD)*			Diameter Tolerance		

***REQUIRED DIMENSIONS FOR ACCURATE QUOTING. L4, L5 & L6 CAN BE ESTIMATED IF NOT YET KNOWN. OTHERS CAN BE LEFT BLANK.**

Quantity required?

Future quantities?

Rated Load – The maximum operating load of the pin?

Proof Load - Interface default is 150% of Rated Load? (Proof load will be applied prior to (during?) calibration and noted on calibration certificate)

Break Load or Safety Factor?

Interface generally regards 3:1 as a minimum for general applications and 5:1 as a minimum for lifting applications. A higher Safety Factor may be required for certain applications (i.e. lifting people) or as requested by the customer.

Is the pin Bi-directional, Yes or No?* (This means is a measurement axis used in both positive and negative directions, or just one direction? Example: Tension, Compression or Both.)

If Yes, how many cable exits, One or Two?

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Is the pin Dual Bridge, Yes or No? (This means does the pin have two redundant bridges on the same axis. Can only be offered on pins of at least a certain diameter.)

Is the pin Dual Axis (XY), Yes or No? (This means does the pin have two perpendicular axis of measurement. Can be useful if the load cannot be constrained to a single orientation. Can be used to calculate load vector. Generally must be calibrated in-situ by customer. Can only be offered on pins of a certain minimum diameter.)

*** Critical Information Required. MINIMUM INFORMATION REQUIRED FOR QUOTING.**

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ENVIRONMENTAL INFORMATION

Operating Temperature Range?

Ingress Protection Level (IP / NEMA Rating) or submersion depth? If submerged - How long and what fluid?

Type of environment e.g. Marine, Indoors, Dust, Subsea etc? Please specify:*

LOAD PIN OUTPUT

Specify the required output (select only one):*

Analog:

- ☐ mV/V bridge output (Bridge Resistance 350 Ohm? unless otherwise specified)
- ☐ 0.1-10.1 volt output Amplifier (ICA1)
- ☐ 0.1-5.1 volt output Amplifier (ICA2)
- ☐ 4-20 mA (3 wire) current output Amplifier (ICA4)
- ☐ 4-20 mA (2 wire) current output Amplifier (ICA5)
- ☐ +/- 10 volt output Amplifier (ICA6)

Digital:

- ☐ RS485 ASCII DCell Amplifier
- ☐ RS485 MantraBUS DCell Amplifier
- ☐ RS485 ModBus RTU DCell Amplifier
- ☐ MantraCAN DCan Amplifier
- ☐ CANopen DCan Amplifier

Wireless:

- ☐ WTS Wireless Telemetry System

The output of the Amplifier / DCell / Telemetry unit will be scaled between zero and the rated load of the pin unless otherwise specified. Please specify different scaling if required.

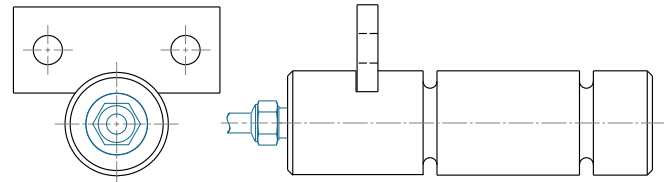
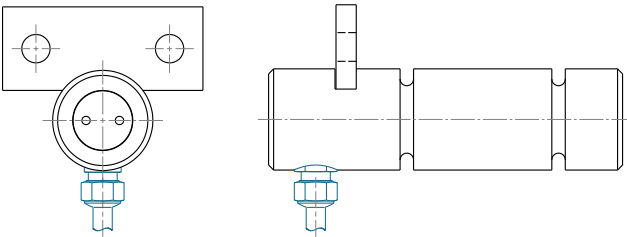
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CABLE EXIT

Specify whether a gland (integral cable) or connector is required.* If integral, what cable length?*

If a connector is required, please specify the type. (If unspecified we will use one of our standard connectors).
If connector, do we need to supply a mating connector or do we need to supply a mating cable? If so, how long?

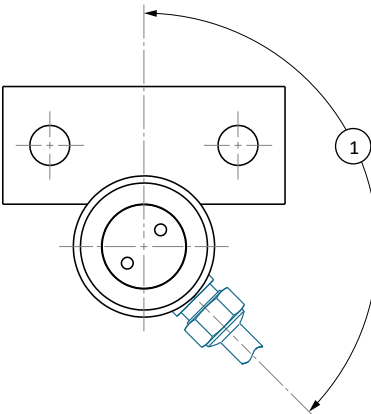
Axial or Radial cable exit:



☐ Radial Cable Exit

☐ Axial Cable Exit

If a Radial exit is required, specify its rotational position, relative to the anti-rotation method.



Dimension	Angle
(1°)	
Notes:	

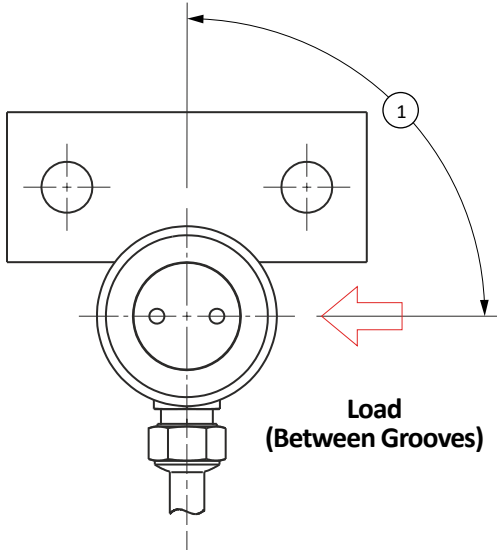
Is mechanical protection of the Gland or Connector required, i.e. Recessed in the pin, bracket, cage etc. , Yes or No? If Yes, please specify:

Is Hose Protection required for the cable, Yes or No? If yes, please specify the hose type and length:

* Critical Information Required.

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LOAD INFORMATION



Load Direction. Relative to the anti-rotation method (show load angle or provide sketch or separate drawing).

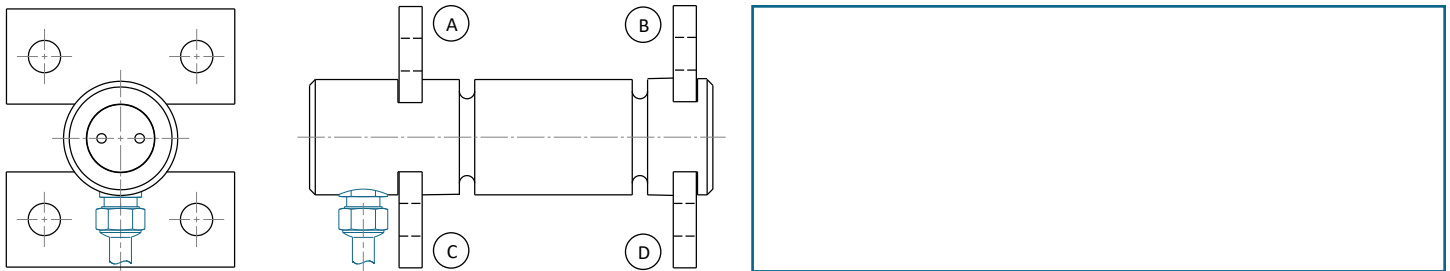
Dimension	Angle
(1)	
Sketch:	

ANTI-ROTATION AND RETENTION METHODS

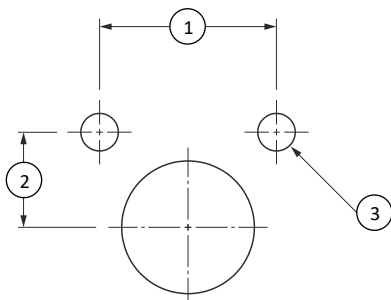
Keeper Plate

How many keeper plates are required 1, 2, 3, or 4? Also, what positions are required A, B, C, or D?

If there is a preferred position for the keeper plate(s), please specify at which end of the pin and the angle in relation to the load direction.



If tapped holes for a keeper plate already exist in the structure, specify the size and position.



Dimension	in	mm	Position
(1)			
(2)			
(Ø3)			
Notes:			

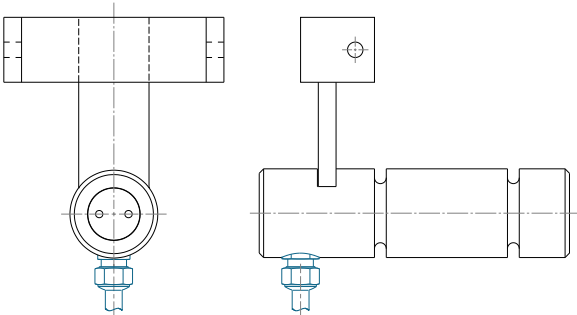
* Critical Information Required.

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Grab Bracket

Provide dimensional information for what the bracket will grab and its position relative to the cable exit / load direction. This is used instead of a keeper plate:

- when a keeper plate isn't practical
- if the pin must rotate to maintain load axis orientation show two examples:
 1. load shackle- keeper plate impractical
 2. fixture where pin follows load (see attached sketch)



TESTING AND CALIBRATION

State the required calibration units.*

CERTIFICATIONS

Hazardous Area ATEX / IECEx protection required, Yes or No? If yes, please specify Zone and Protection type:*

Other certification required, please specify:

OTHER INFORMATION

If possible, please include the following:

- 1, Photographs of the load pin location and the structure around it so that we can see the space around the pin and how it is loaded.
- 2, If the load pin is replacing a non-instrumented pin, include a drawing or dimensions of that pin.

Notes / Comments

* Critical Information Required.