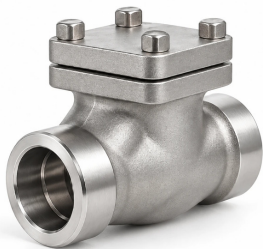


ARD-ST-001

Cryogenic strainer · PN40 · SW



A socket-weld cryogenic strainer with a CF8 body and S30408 filter element. Select the mesh or aperture, allowable pressure loss and maintenance clearance for the line.

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

Product illustration. Appearance and dimensions depend on the selected configuration.

Selection	Specification
Size range	DN 10-50
Pressure ratings	PN40
Temperature	-196 to +80°C · series*
Connections	Socket weld (SW)
Medium	LNG, LOX, LN2, LAr

Define your requirement

Specify medium, design pressure and temperature, nominal size, connection standard, operation, quantity and required inspection documentation.

View this product and request a quotation

This catalogue datasheet supports selection and enquiry. It is not a certified pressure-temperature curve, installation drawing or order-specific approval.

Technical specification

Parameter	Specification
Size range	DN 10-50
Pressure ratings	PN40
Connection	Socket Weld
series temperature*	-196°C to +80°C
Medium	LNG, LOX, LN2, LAr

End connections

Illustrated arrangement: Inline socket-weld body with a square four-bolt service cover.

Connection detail	Selection requirement
Published connection	Socket Weld
Socket interface	Confirm pipe outside diameter, socket bore, depth and wall thickness for the chosen size. SW is not a threaded or butt-weld interface.
Reference drawing scope	PN40 socket-weld strainer arrangement, DN10-DN50. Exact duplicate reference rows are consolidated. Confirm filter aperture or mesh and element-removal clearance.

Materials

Component	Material / option
Body	CF8
Filter	S30408

Alternative arrangement materials

Materials apply to the supplied reference arrangement. PN40 socket-weld strainer arrangement, DN10-DN50. Exact duplicate reference rows are consolidated. Confirm filter aperture or mesh and element-removal clearance.

Component	Material
Hexagon Screw	S30408
Spring of Gland Nut	S30210
Body	CF8
Bonnet	CF8
Spring Pad	S30408
Filter Assembly	S30408
Gasket	RPTFE

Reference dimensions

Dimensions apply to the tabulated version only. Confirm the approved outline drawing for the selected size, rating and connections before installation.

PN40 socket-weld strainer arrangement, DN10-DN50. Exact duplicate reference rows are consolidated. Confirm filter aperture or mesh and element-removal clearance.

Dimensions and connection reference

DN	H	L	D0	D1	D2	B
10	55	60	Ø13	Ø14.5	Ø24	6
15	62	65	Ø15	Ø18.5	Ø29.5	6
20	70	80	Ø20	Ø25.5	Ø36	8
25	77	90	Ø25	Ø32.5	Ø43.5	8
32	89	105	Ø32	Ø38.5	Ø53	8
40	98	120	Ø40	Ø45.5	Ø62	8
50	111	140	Ø50	Ø57.5	Ø72	10

Linear dimensions: mm; weights: kg unless stated otherwise. Thread, mounting and pressure designations are not linear dimensions. A dash means that no value is documented. Request the approved outline drawing for installation.

Engineering requirements

Topic	Requirement
Dimension data	Reference table and drawing: DN10, DN15, DN20, DN25, DN32, DN40, DN50. Dimensions and connection reference.
Installation drawing	Confirm end-to-end length, socket bore/depth, pipe size and wall thickness, overall height and operating/removal clearance.
Pressure-temperature rating	Obtain the allowable-pressure table or curve versus temperature for the selected body, seat and seals, including minimum and maximum design temperature. Nominal rating and a family temperature range do not define this curve.

Configuration features

- Catalogue body: CF8
- Published connections: Socket Weld

Selection notes

Sizes and pressure ratings depend on construction, materials and configuration. Confirm the selected pressure-temperature rating with the quotation.

*-196 to +80°C is the series/reference range. It does not establish the allowable pressure at each temperature or suitability of every seat, seal and actuator. Confirm the selected assembly’s minimum design temperature and pressure-temperature curve.

Filter mesh/aperture and clean/dirty pressure loss are not published. Specify these with the element-removal clearance and the required cleaning procedure.

Catalogue construction and supplied reference-arrangement materials are shown separately below the material schedule. Use the approved drawing for the quoted body, trim and connections.

PN, ASME Class and safety-valve set pressure are separate values. Confirm allowable pressure versus temperature, material compatibility, oxygen cleaning, trapped-liquid relief and required certification for the selected assembly. Liquid hydrogen and helium service require a separate assessment.