

ARD-PL-002

Cryogenic plunger valve - straight pattern



A straight-pattern cryogenic plunger-valve reference for inline isolation. The metal-seated family has class-dependent size maxima; the illustrated extended manual upper assembly is selected with the required travel and duty.

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

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

Selection	Specification
Size range	Up to NPS 40; pattern/class dependent
Pressure ratings	ASME Class 150-2500
Temperature	Cryogenic design temperature to specify
Connections	End connections to specify

Define your requirement

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

Project selection

Topic	Selection requirement
Functional selection	Specify isolation duty, medium, differential pressure, travel and operating frequency.
Pattern and drive	Confirm internal design, selected operator, port geometry and the approved dimensional drawing.

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
Construction	Straight-pattern plunger family; metal seated
Operation	Operator to select; manual geared arrangement illustrated
Combined family maxima	Class150/300: NPS40; Class600: NPS36; Class900: NPS30; Class1500: NPS24; Class2500: NPS12

End connections

Illustrated arrangement: two opposed inline flanged ports and an extended manual upper assembly

Connection detail	Selection requirement
Connection options	End connections to specify
Mating interface	Confirm end standard, facing or weld preparation, pipe dimensions and installation envelope.
Configuration selection	Port pattern and flange layout are illustrative; request the selected end-connection schedule.

Materials

Component	Material / option
Pressure parts	Material grade to specify
Closure and seat	Metal seated; selected grades to confirm

Configuration features

- Straight pipe pattern
- Metal-seated plunger selection
- Extended upper assembly illustrated

Selection notes

Series limits guide enquiry and are not verified availability or approved operating limits for every size, pressure and operator combination. Confirm the selected design and pressure-temperature rating.

Angle and straight patterns share a published family row. Its maxima do not separately qualify every pattern or operator.

No control characteristic, Cv/Kv or precision-regulation performance is established for this reference.

Confirm pressure-temperature limits, material compatibility, oxygen cleaning, trapped-liquid relief and certification for the selected assembly. PN, ASME Class and relief set pressure are separate values.