

Relief Valve Product Data Sheet

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General

Model Number:	14480-22
Manufacturer:	Bifold Marshalsea
Weight (Kg):	0.24

Valve Design

Design Type:	Conventional direct acting thermal relief valve
Nozzle Type:	Semi
Bonnet Type:	Closed
Design Code:	PED (pressure equipment directive) category IV approved
Maximum Working Pressure:	600 bar
Operating Media:	Mineral oils and water glycols (see note 1)
Seat Leak Tightness:	To internal test procedure
Over Pressure:	10% (see note 2)
Reseat:	95% of set pressure
Maximum Back Pressure:	70 bar (see note 3)
Nace Compliant:	No

Connections

Inlet Size:	1/4" NPT male
Outlet/Exhaust Size:	1/4" NPT female

Materials

Body:	316 stainless steel
Nozzle/Seat:	M340 stainless steel
Disc/Poppet:	Silicon nitride
Stem:	M340 stainless steel
Guide:	Phosphor bronze
Bonnet:	316 stainless steel
Spring:	302 stainless steel
Cap:	316 stainless steel
Other:	Nitrile

Sizing And Selection

Orifice Diameter:	4.06mm (see note 4)
Orifice Area:	12.97mm ² (see note 4)
Pressure Range:	200 - 600 bar

Accessories

Cap:	Screwed
Other:	

Notes:

- The valves have been designed for use with mineral oils and water glycols as standard, if a different system media is used, compatibility should be checked with Bifold Marshalsea.
- This is the standard overpressure that sizing calculations are based on.
- This is the maximum back pressure that can be applied based on mechanical integrity.
- The orifice diameter/area cannot be used for sizing calculations. Consult Bifold Marshalsea for sizing calculations.

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Component Descriptions