

Relief Valve Product Data Sheet

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General

Model Number:	14480-20
Manufacturer:	Bifold Marshalsea
Weight (Kg):	0.23

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:	50 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:	90% of set pressure (static test conditions)
Maximum Back Pressure:	5 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:	PEEK
Disc/Poppet:	440C stainless steel
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:	9.53mm (see note 4)
Orifice Area:	71.33mm ² (see note 4)
Pressure Range:	7 - 50 bar

Accessories

Cap:	Screwed
Other:	

Notes:

1. 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.
2. This is the standard overpressure that sizing calculations are based on.
3. This is the maximum back pressure that can be applied based on mechanical integrity. However, any back pressure that is applied is additive to the valve setting.
4. The orifice diameter/area cannot be used for sizing calculations. Consult Bifold Marshalsea for sizing calculations.

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Component Descriptions