Accessories

Thermal Valves

Body Size
1"



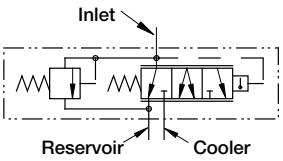
Technical Description
Temperature responsive by-pass valve to modulate return line oil between tank and oil cooler. Available in 5 shift temperatures, 38°C to 82°C. Integral relief valve to dump excessive inlet pressures to the reservoir. Relief pressure settings available from 0.34 to 6,0 bar. 17 bar maximum operating pressure. Up to 227 l/m flow rates.

Advantages
Modulates fluid temperature either by shifting return line flow through the cooler, or by passing directly to the reservoir. Compact construction. 2 mounting holes, each of Ø 10,6 mm. Aluminium die-cast housing. 3 threaded ports for easy tubing. A built-in pressure relief function automatically relieves excess pressure to the reservoir, should the cooler become restricted and the resultant pressure drop become too high for the cooler circuit.

Applications
Ideally suited to hydrostatic drive circuits that require fast warm-up, controlled fluid temperatures and low return line-back pressure.

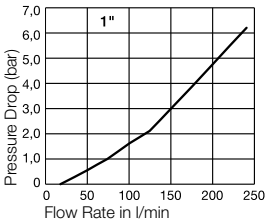
Working Pressure
max. 17 bar

Technical Performance

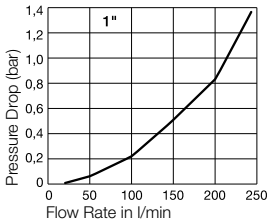


Material	Standard
Body	Aluminium
Valve	Different Materials
Spring	Steel
Seal	NBR, FKM

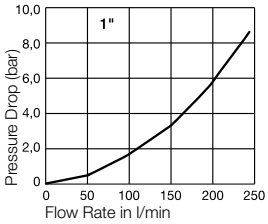
Inlet port through tank port© 38°C
Test with oil viscosity 64 cst



Inlet port through cooler port© 63°C
Test with oil viscosity 23 cst

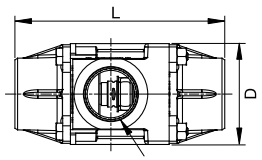


Inlet port over integral relief valve© 77°C
Test with oil viscosity 16 cst

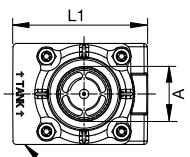


Note: Pressure drop shown is added to relief valve cracking pressure for total pressure drop.

Thermal Valves — Accessories



1,312 - 12UN-2B
SAEJ1926-1-16 SIZE
3 PLACES



Ø 0,42 (10,7)
MOUNTING HOLES
2 PLACES

Body Size	Connection A	L mm	L1 mm	D mm	Weight gr.	Part Number
1"	1 5/16-12 UN	138,2	89,2	66,5	907,0	TH-1000-16FO-*

* = QQ. Please find the Dash Code for your application in the table on the next page.

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CRACKING PRESSURE/TEMPERATURE CODE FOR PRODUCT CONFIGURATION

STRUCTURE OF PART-NUMBER

TH -1000 -16FO - QQ

VALVE SERIES:
Thermal Bypass

VALVE SIZE:
1000 = 1 inch

PORT SIZE & STYLE:
16FO = 1 inch SAE O-Ring Boss (1.312-12UN-2B thread)

CRACKING PRESSURE / TEMPERATURE CODE:
(see table below)

Cracking Pressure	Shift 38°C	Shift 49°C	Shift 60°C	Shift 71°C	Shift 82°C
0,35 bar	-01	-21	-41	-61	-81
0,70 bar	-02	-22	-42	-62	-82
1,05 bar	-03	-23	-43	-63	-83
1,40 bar	-04	-24	-44	-64	-84
1,70 bar	-05	-25	-45	-65	-85
2,10 bar	-06	-26	-46	-66	-86
2,40 bar	-07	-27	-47	-67	-87
2,75 bar	-08	-28	-48	-68	-88
3,10 bar	-09	-29	-49	-69	-89
3,45 bar	-10	-30	-50	-70	-90
3,80 bar	-11	-31	-51	-71	-91
4,15 bar	-12	-32	-52	-72	-92
4,50 bar	-13	-33	-53	-73	-93
4,85 bar	-14	-34	-54	-74	-94
5,20 bar	-15	-35	-55	-75	-95
5,50 bar	-16	-36	-56	-76	-96
5,85 bar	-17	-37	-57	-77	-97

⚠ Please consider our security advices on the pages 12/13 ⚠