

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.

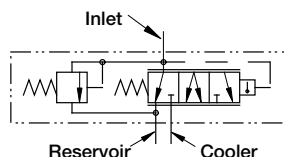
Applications

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

Working Pressure

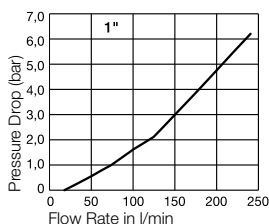
max. 17 bar

Technical Performance

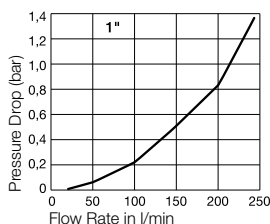


Material	Standard
Body	Aluminium
Valve	Different Materials
Spring	Steel
Seal	NBR, FKM

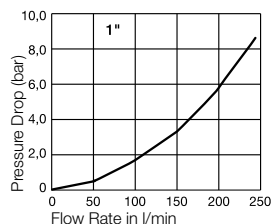
Inlet port through tank port° 38°C
Test with oil viscosity 64 cst



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



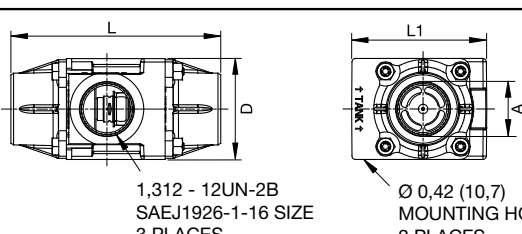
Inlet port over integral relief valve° 77°C
Test with oil viscosity 16 cst



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

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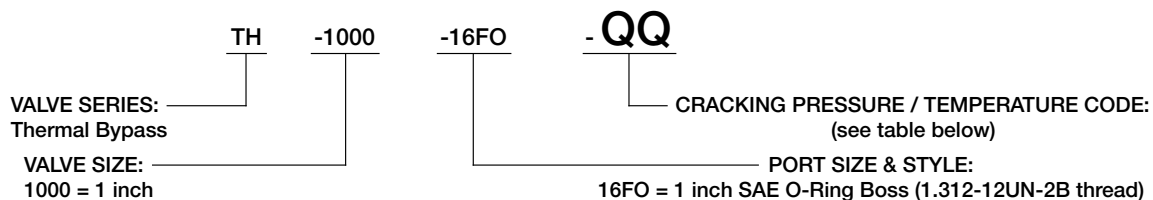
Accessories

	Body Size	Connection A	L mm	L1 mm	D mm	Weight gr.	Part Number
 1,312 - 12UN-2B SAEJ1926-1-16 SIZE 3 PLACES Ø 0,42 (10,7) MOUNTING HOLES 2 PLACES	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.

CRACKING PRESSURE/TEMPERATURE CODE FOR PRODUCT CONFIGURATION

STRUCTURE OF PART-NUMBER



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 ⚠