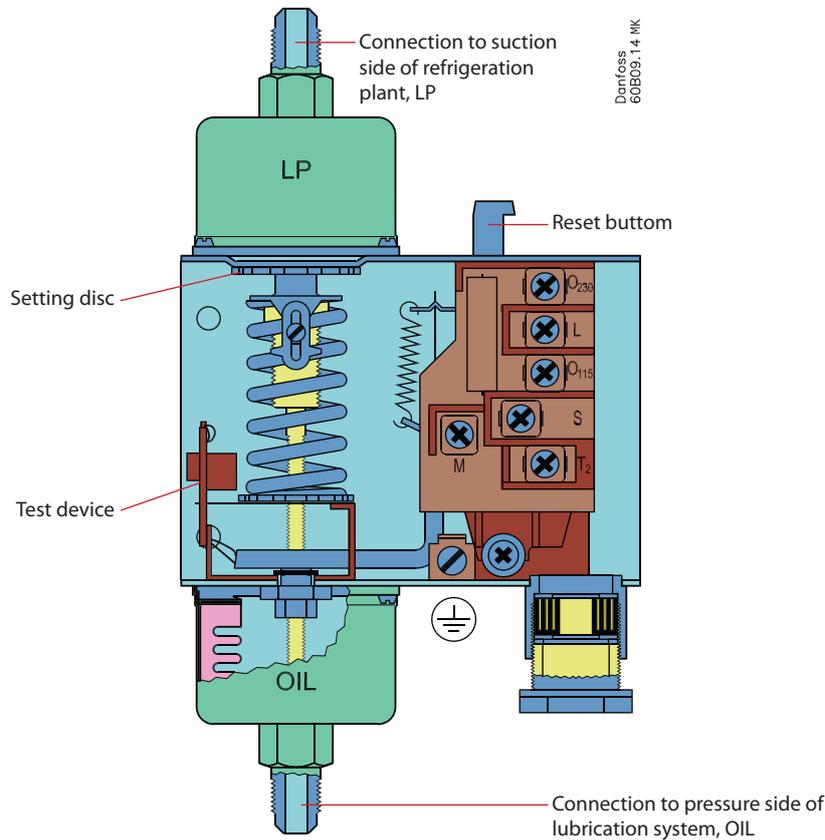




MP – Differential pressure controls

MP 54 and MP 55 oil differential pressure controls are used as safety switches to protect refrigeration compressors against low lubricating oil pressure. If the oil pressure fails the oil differential pressure control stops the compressor after a certain time period. MP 54 and 55 are used in refrigerating systems using fluorinated refrigerants. MP 55A is used in refrigerating systems with R717 (NH₃). MP 55A can also be used in systems with fluorinated refrigerant. MP 54 has a fixed differential pressure setting. It also incorporates a thermal time relay with a fixed release time setting. MP 55 and 55A have adjustable differential pressure and are available both with and without thermal time relay.

Features



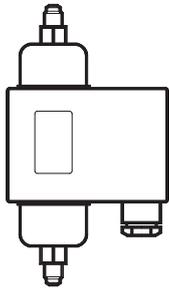
Applications	Advantages	Facts
<ul style="list-style-type: none"> Deep freeze, refrigeration and air conditioning plant 	<ul style="list-style-type: none"> Suitable for both alternating and direct current Small contact differential Can be used for all normal fluorinated refrigerants 	<ul style="list-style-type: none"> Meets the requirements of EN 60947 Wide regulating range Screwed cable entry for cables from 6 to 14 mm diameter Electrical connection at the front of the unit Small contact differential



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Technical data and ordering

For fluorinated refrigerants



Type	Differential Δp [bar]	Switch differential max. Δp [bar]	Operation range, LP side [bar]	Time relay release time [s]	Contact load	Code no.	
						Connection	
						$\frac{1}{4}$ in. 6 mm flare	1 m cap.tube $\frac{1}{4}$ in. ODF solder
MP 54	0.65	0.2	-1 - 12	0 ²⁾	B	060B029766	-
	0.65	0.2	-1 - 12	45	A	060B016666	-
	0.9	0.2	-1 - 12	60	A	060B016766	-
	0.65	0.2	-1 - 12	90	A	060B016866	-
	0.65	0.2	-1 - 12	120	A	060B016966	-
MP 55	0.3 - 4.5	0.2	-1 - 12	45	A	060B017066	060B013366
	0.3 - 4.5	0.2	-1 - 12	60	A	060B017166	-
	0.3 - 4.5	0.2	-1 - 12	60	A	060B017866 ¹⁾	-
	0.3 - 4.5	0.2	-1 - 12	90	A	060B017266	-
	0.3 - 4.5	0.2	-1 - 12	120	A	060B017366	060B013666
	0.3 - 4.5	0.2	-1 - 12	0 ²⁾	B	060B029966	-

For fluorinated refrigerants and R717 (NH₃)

Type	Differential Δp [bar]	Switch differential max. Δp [bar]	Operation range, LP side [bar]	Time relay release time [s]	Contact load	Code no.	
						Connection	
						\varnothing 6,5 / \varnothing 10 mm weld nipple	Cutting ring 6 mm
MP 55A	0.3 - 4.5	0.2	-1 - 12	45	A	060B017466	060B018266
	0.3 - 4.5	0.2	-1 - 12	60	A	060B017566	060B018366
	0.3 - 4.5	0.2	-1 - 12	60	A	060B017966 ¹⁾	-
	0.3 - 4.5	0.2	-1 - 12	90	A	060B017666	060B018466
	0.3 - 4.5	0.2	-1 - 12	120	A	060B017766	-
	0.3 - 4.5	0.2	-1 → 12	0 ²⁾	B	060B029866 ²⁾	060B029666

¹⁾ With operational light that remains on during normal operation.

Note: If the operational light goes out, the compressor should not run longer than the release time.

²⁾ Versions without time relay are for applications where an external time relay is required - perhaps with a different release time than the one specified.

Contact loads

Type A:

On time relay output contacts M-S:

AC15: 2 A, 250 V

DC13: 0,2 A, 250 V

Type B without time relay:

AC15: 0,1 A, 250 V

DC13: 12 W, 125 V



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