



PRESSURE CONTROLS ADJUSTABLE PRESSURE SWITCH

P78

DUAL PRESSURE, IP54

The P78 series pressure controls may be used for control functions or limit functions, depending on model number.

All models are provided with alarm contacts (except P78ALA). All standard models have phosphor bronze bellows and brass pressure connections. Models for use with ammonia are provided with stainless steel bellows and connectors.

Devices conforming to PED 2014/68/EU Cat. IV have a double bellows on the high pressure versions.

Their IP54 classification means that these pressure controls are suitable for almost all applications.



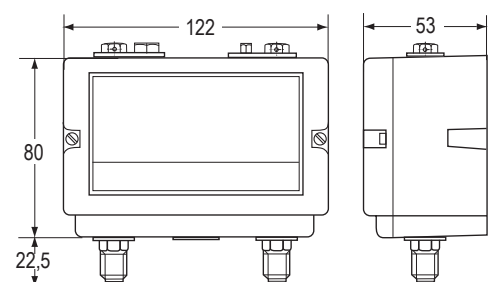
FEATURES

- High refrigerant pressure. Suitable for R410A and CO₂ subcritical applications.
- Gold plated contacts
- Generous wiring space
- Splash-proof enclosure (IP54)
- Trip-free manual reset
- Patented separate alarm contacts for both low pressure and high pressure cut-out (except P78ALA)

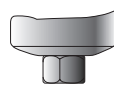
APPLICATION

These pressure controls are designed for use in a variety of applications involving refrigeration high or low pressure. Models supplied have a "whole range" design, enabling them to be used with refrigerants R22, R134A, R404A, R410A, CO₂ sub-critical and all other non-corrosive refrigerants which are within the operating range of the control. They may also be used for other high or low pressure applications such as air, water etc. Models which can be used with ammonia are included in the program. Also models tested and approved to PED 2014/68/EU Cat. IV (supersedes DIN and TUV approval) are included in the program.

DIMENSIONS (in mm)



Style 5



Style 15



Style 28



Style 30

P78 – ADJUSTABLE PRESSURE SWITCH



ORDERING INFORMATION

DUAL PRESSURE CONTROLS FOR NON-CORROSIVE REFRIGERANTS

FAMILY CODES	PRESSURE CONNECTION			LEFT SIDE		RIGHT SIDE		CONSTRUCTION LP/HP (MAX. PRESS.)
	Style 5		Style 30	Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)	
	Ind. Pack.	Bulkpack	Ind. Pack.					
P78LCA	-9300	-9320	-9400	-0.5 to 7	0.6 to 3	3 to 30	3 (fixed)	LP: 22 bar HP: 33 bar
P78MCA	-9300	-9320	-9400	-0.5 to 7	0.6 to 3	3 to 30	Man. Res. ²	
P78PGA	-9300	*	-9400	-0.5 to 7	Man. Res. ¹	3 to 30	Man. Res. ²	

Notes

* Can be set-up for quantity orders

¹ Resettable at 0.5 bar above cut-out point

² Resettable at 3 bar below cut-out point

FOR AMMONIA AND NON-CORROSIVE REFRIGERANTS

FAMILY CODES	PRESSURE CONNECTION		LEFT SIDE		RIGHT SIDE		CONSTRUCTION LP/HP (MAX. PRESS.)
	Style 15		Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)	
	Ind. pack.	Bulkpack					
P78LCA	-9700	*	-0.5 to 7	0.6 to 3	3 to 30	3 (fixed)	LP: 14 bar HP: 33 bar
P78MCA	-9700	*	-0.5 to 7	0.6 to 3	3 to 30	Man. res. ²	
P78PGA	-9700	*	-0.5 to 7	Man. res. ¹	3 to 30	Man. res. ²	

FAN CYCLING CONTROLS FOR AIR-COOLED CONDENSERS (NON-CORROSIVE REFRIGERANTS)

FAMILY CODES	PRESSURE CONNECTION			LEFT SIDE		RIGHT SIDE		CONSTRUCTION HP (MAX. PRESS.)
	Style 5		Style 30	Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)	
	Ind. pack.	Bulkpack	Ind. pack.					
P78ALA	-9351	*	-9451	3.5 to 21	1.8 (fixed)	3.5 to 21	1.8 (fixed)	HP: 30 bar



P78 - ADJUSTABLE PRESSURE SWITCH

ORDERING INFORMATION

FOR NON-CORROSIVE REFRIGERANTS, TYPE APPROVED PRESSURE LIMITER/PRESSURE CUT OUT/SAFETY PRESSURE CUT OUT - (EXCEPT P78PGB-¹)

FAMILY CODES	PRESSURE CONNECTION			LEFT SIDE		RIGHT SIDE		CONSTRUCTION LP/HP (MAX. PRESS.)	APPROVED ACCORDING TO PED 2014/68/EU CAT. IV
	Style 5		Style 28	Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)		
	Ind. pack.	Bulkpack	Ind. pack.						
P78LCW	-9300	-9320	-9800	-0.5 to 7	0.6 to 3	3 to 30	3 (fixed)	LP: 22 bar HP: 33 bar	■
P78MCB	-9300	-9320	-9800	-0.5 to 7	0.6 to 3	3 to 30	Man. res. ³		
P78MCS	-9300	---	---	-0.5 to 7	0.6 to 3	3 to 30	Man. res. ³		
P78PGB	-9300	*	-9800	-0.5 to 7	Man. res. ³	3 to 30	Man. res. ³		
P78PLM	-9350	*	-9850	3 to 30	Man. res. ³	3 to 30	Man. res. ³		

DUAL PRESSURE CONTROLS FOR NON-CORROSIVE REFRIGERANTS, TYPE APPROVED PRESSURE LIMITER/PRESSURE CUT OUT/SAFETY PRESSURE CUT OUT

FAMILY CODES	PRESSURE CONNECTION		LEFT SIDE		RIGHT SIDE		CONSTRUCTION LP/HP (MAX. PRESS.)	APPROVED ACCORDING TO PED 2014/68/EU CAT. IV
	Style 5		Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)		
	Ind. pack.							
P78LCW	-9355		-0.2 to 10	1 to 4.5	3 to 42	4 (fixed)	LP: 15 bar HP: 47.6 bar	■
P78MCB	-9355		-0.2 to 10	1 to 4.5	3 to 42	Man. res. ⁴		
P78PLM	-9355		3 to 42	Man. res. ⁴	3 to 42	Man. res. ⁴		

DUAL PRESSURE CONTROL FOR HAZARDOUS LOCATION APPLICATION AND NON-CORROSIVE REFRIGERANTS

FAMILY CODE	PRESSURE CONNECTION		LEFT SIDE		RIGHT SIDE		APPROVED ACCORDING TO PED 2014/68/EU CAT. IV
	Style 28		Range (bar)	Diff. (bar)	Range (bar)	Diff. (bar)	
	Ind. pack.	Bulkpack					
P78XLCW	-18000C	-18000D	-0.5 to 7	0.6 to 3	3 to 30	3 (fixed)	■

Notes

* Can be set-up for quantity orders

- 1 Resettable at 0.5 bar above cut-out point
- 2 Resettable at 3 bar below cut-out point
- 3 Resettable at 3.5 bar below cut-out point
- 4 Resettable at 5 bar below cut-out point