

# MDR-F

LARGE NUMBER OF ALTERNATIVES &

UNIVERSAL APPLICATIONS





MDR-F...H-S



MDR-P



MDR-K



MDR 43



MDR 53

## Control pressure switches

## Industries



### MDR-F

1 SPDT / 2 DPDT  
Normally Closed / Normally Open (NO/NC)  
Pressure range up to 250 bar  
ATEX / GL / VdS / UL approvals -optional  
Scale for simple adjustments  
**Wide range of variations**  
Acc. to EN 60947

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Air pressure technology, water pressure technology, construction machinery, water-based extinguishing systems, fire protection units, oil pressure monitoring, mining, chemical, industry, railway vehicles, offshore, shipping, vacuum technology, calibration technology, heating systems

### MDR-P

1 SPDT  
Pressure range up to 16 bar  
Compact pressure switch with coupling DIN EN 175301  
Fixed pressure setting, **OEM applications**

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**For the series production, perfect for industrial customers!**  
Air pressure technology, water pressure technology, construction machinery, breweries, heating systems, calibration technology

### MDR-K

2 DPDT  
Pressure range up to 11 bar  
Bayonet coupling ISO 15170-1  
**OEM applications**

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**For the series production, perfect for industrial customers!**  
Air pressure technology, water pressure technology

### MDR 43

1 N.O. + 1 N.C.  
Pressure range up to 16 bar

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Air pressure technology, water pressure technology

### MDR 53

1 SPDT  
Maximum shut-off pressure setting 16 bar  
CSA approval optional  
**Pressure adjustment without tools**

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Air pressure technology, water pressure technology

## Overview



Type designation	MDR F..H Die-cast aluminum	MDR-F..Y Plastic	MDR-F..HE Stainless steel	MDR-F..HH High pressure	MDR-F. Reset function
Contact function	1 SPDT*1	1 SPDT*1	1 SPDT*1	1 SPDT*1	1 SPDT*1
Voltage	230 V	230 V	230 V	230 V	230 V
Motor switching capacity	0,55 kW	0,55 kW	0,55 kW	0,55 kW	0,55 kW
Current AC 15	4 A	4 A	4 A	4 A	4 A
Flange types <b>Standard (bold)</b>	<b>G 3/8"</b> G 1/2" G 1/4" 1/4" NPT Inner thread (Die-cast aluminum)	<b>G 3/8"</b> Inner thread (plastic)	<b>G 1/4"</b> Inner thread (Stainless steel)	<b>G 3/8"</b> Inner thread (Stainless steel + throttle)	Flanges on demand
Pressure ranges (bar) Cut-out pressure from - to	6 0,11 - 32	5 0,11 - 16	2 1 - 30	3 8 - 250	Pressure ranges on demand
Degree of Protection	IP 54 / IP 65	IP 54 / IP 65	IP 54 / IP 65	IP 54 / IP 65	IP 54 / IP 65
Cable glands	WN / M 20	WN / M 20	WN / M 20	WN / M 20	WN / M 20
Permissible media temperature *2	- 25 .. + 70 °C	- 20 .. + 50 °C	200 °C	70 °C	according to selection
Type designation	VdS to 16 bar UL/GL Atex	VdS to 10 bar GL to 12,5 bar Atex	- - Atex	UL / GL Atex	- GL on request Atex on request

\*1 = SPDT with gold-flashed contacts / 2 SPDT / NC + NO for special applications - on request

\*2 = Other diaphragms and further temperature ranges on request

## Connection system



Industrial screw version  
(standard)



Industrial clamp version  
(upon request)



Connector according to  
ISO 15170-1 (DIN 72585-1)  
-on request



Connector according to  
DIN EN 175301 (DIN 43650)  
-on request



Connector according to  
M 12 x 1 DIN EN 61076  
-on request

## Overview



Type designation	MDR – F Vacuum	MDR - P	MDR - K	MDR 43	MDR 53
Contact function	1 SPDT <sup>*1</sup> / 2 SPDT's	1 SPDT <sup>*1</sup>	2 SPDT's	1 N:C: 1 N.O.	1 SPDT
Voltage	230 V	230 V	230 V	230 V	230 V
Motor switching capacity	0,55 kW	0,55 kW	0,55 kW	1,1 kW	0,55 kW
Current AC 15	4 A	4 A	4 A	8 A	4 A
Flange types Standard (bold)	<b>G 1/4"</b> Inner thread	<b>G 1/4"</b> Outer thread	<b>G 1/4"</b> Outer thread	<b>G 1/2"</b> <b>G 1/4"</b> Inner thread (Die-cast aluminium)	<b>G 1/2"</b> Inner thread (Die-cast aluminium)
Pressure ranges Cut-out pressure from ... to	2 - 0,7 - 3 bar	optional 0,3 - 16 bar	3 0,5 - 11 bar	4 0,5 - 16 bar	4 0,3 - 16 bar
Degree of Protection	IP 54 / IP 65	IP 65	IP 67	IP 44	IP 54
Cable glands	WN / M 20	Coupling	Coupling	optional	optional
Permissible media temperature <sup>*2</sup>	- 25 .. + 70 °C	- 25 .. + 70 °C	- 40 .. + 70 °C	- 30 .. + 80 °C	- 30 .. + 80 °C
Type designation	- - Atex				- - KEMA

<sup>\*1</sup> = SPDT with gold-flashed contacts for special applications on request

<sup>\*2</sup> = further temperature ranges on request