



Honeywell

THE POWER OF **CONNECTED**





L404F:

- Controllers may be used with steam, air, or noncombustible gases, or fluids noncorrosive to the pressure sensing element.

FEATURES

- Models available in a series of control ranges and pressure scales in kPa and psi.
- All models automatically reset and have an adjustable differential.
- Models have snap switch to open or close a circuit on a pressure rise.
- Case has a clear plastic cover so setpoints can be observed.
- 1/4 inch-18 NPT connection for pipe on diaphragm assembly.
- Ground screw terminal.

L404T:

- High pressure limits, break a circuit on oil pressure rise above setpoint.

L404V:

- Low pressure limits, makes a circuit on oil pressure rise above setpoint.

SPECIFICATIONS

Model Number	Operating Ranges		Subtractive Differential ^a		Maximum Diaphragm pressure	
	kPa	psi	kPa	psi	kPa	psi
L404F1060	15 to 100	2 to 15	15 to 40	2 to 6	170	25
L404F1078	35 to 350	5 to 50	40 to 100	6 to 14	590	85
L404F1094	140 to 2070	20 to 300	140 to 345	20 to 50	2410	350 ^b
L404F1102	70 to 1035	10 to 150	70 to 150	10 to 22	1550	225
L404F1219 ^c	15 to 100	2 to 15	15 to 40	2 to 6	170	25
L404F1243 ^c	35 to 350	5 to 50	40 to 100	6 to 14	590	85
L404F1227 ^c	70 to 1035	10 to 150	70 to 150	10 to 22	1550	225
L404F1235 ^c	140 to 2070	20 to 300	140 to 345	20 to 50	2410	350 ^b
L404F1300 ^c	415 to 1240	60 to 180	40 fixed	6.0 Fixed	1550	225
L404F1326	0 to 100	0 to 15	15 to 40	2 to 6	170	25
L404F1334	0 to 350	0 to 50	40 to 100	6 to 14	590	85
L404F1342	35 to 1000	5 to 145	70 to 150	10 to 22	1550	225
L404F1359	70 to 2000	10 to 290	140 to 345	20 to 50	2410	350 ^b
L404F1367	7 to 55	1 to 8	5 to 14	0.75 to 2	170	25
L404F1375 ^d	35 to 350	5 to 50	40 to 100	6 to 14	590	85
L404F1383 ^d	70 to 1035	10 to 150	70 to 150	10 to 22	1550	225
L404F1391 ^d	140 to 2070	20 to 300	140 to 345	20 to 50	2410	350 ^b
L404F1409 ^d	15 to 100	2 to 15	15 to 40	2 to 6	170	25
L404F1441	0.35 to 3.5 Kg/cm ²	5 to 50 psi	0.4 to 1.0 Kg/cm ²	6 to 14 psi	6 Kg/cm ²	85 psi
L404T1055	35 to 350	5 to 50	40 to 100	6 to 14	590	85
L404T1063	70 to 1035	10 to 150	70 to 150	10 to 22	1550	225
L404V1087 ^d	70 to 1035	10 to 150	70 to 150	10 to 22	1550	225
L404V1095 ^d	35 to 350	5 to 50	40 to 100	6 to 14	590	85

Digital Controller



DC1010



DC1020



DC1030



DC1040



UDC1200



UDC3500



UDC 3200



UDC2500

Condensed Specifications

Controllers	Accuracy	Loops	Digital Outputs Control	Analog Inputs/ Analog Outputs	Digital Inputs/ Alarm Outputs	Panel Size
DC1010	0.5%	1	1 or 2	1 or 2 / 1 or 2	0/1 to 3	1/16 DIN
DC1020	0.5%	1	1 or 2	1 or 2 / 1 or 2	0/1 to 3	1/8 DIN
DC1030	0.5%	1	1 or 2	1 or 2 / 1 or 2	0/1 to 3	3/16 DIN
DC1040	0.5%	1	1 or 2	1 or 2 / 1 or 2	0/1 to 3	1/4 DIN
UDC1200	0.1%	1	1 or 2	1/UP to 3	1/1 or 2	1/16 DIN
UDC2500	0.25%	1	1 or 2	2/2	2/2	1/4 DIN
UDC3200	0.20%	1	1 or 2	2/2	2/2	1/4 DIN
UDC3500	0.20%	1	1 or 2	2/2	2/2	1/4 DIN



Circular Chart Recorders

Circular Chart Recorders Are preferred for batch processes. The circular chart operation over a specific unit of time, from one hour to 31 days. An additional advantage of the circular chart records is easy filling and copying for reference.



Circular Chart Recorders	DR4300	DR4500
Chart Size	254mm (10 in)	305 mm (12 in)
Reference Accuracy	0.10%	0.10%
Analog Inputs	2	4
Digital Display	Yes	Yes
Chart Type	Preprinted	Self-printing
Control	2 loops	2 loops
Math	Totalization	Yes
Networking	Modbus RTU	Modbus RTU
Optional Soft ware	Specview	Specview

Circular Charts Chart Paper



Series No. 30755317-001

Series No. 24001600

For: DR4300, DR4500



Paperless Recorder



Paperless Recorder	eZtrend GR	MiniTrendnd GR	Multitrend GR
Displays	5.7" Digital Colour LCD (TFT)	5.7" High Resolution Digital Colour LCD (TFT)	12.1" Digital Colour LCD (TFT)
Analog Inputs	3,6,12	4,6,8,12,16	4,8,16,32,48
Data Storage	On-board non-volatile memory-up to 2 GB.	On-board non-volatile memory-up to 4 GB.	On-board non-volatile memory-up to 4 GB.
Sample Rate	100 ms	20 ms	20 ms
Digital I/O	Up to 2DI/6DO	Up to 16DI/16DO	Up to 16DI/16DO
Networking	Ethernet Trendbus/Modbus	Ethernet or RS485 Trendbus or Modbus	Ethernet or RS485 Trendbus or Modbus
Math	200 character free form math	200 character free form math	200 character free form math
Reference Accuracy	+0.1%	+0.1%	+0.5%
Configuration	PC or front panel	PC or front panel	PC or front panel
Control	NO	NO	NO

The Paperless Advantage

Easy to Use

Dedicated display keys and full screen menus allow operators to quickly access and interpret information.

Easy to Operate and Maintain

Reduced maintenance costs, elimination of consumable pens and paper and increased reliability since mechanical print assemblies have been eliminated.

Easy to Network

Products can be connected directly to the Local Area Network (LAN) using the Ethernet TCP/IP Modbus protocol. Using the LAN, various departments can access these instruments for real time data acquisition.

Ultraviolet Flame Detectors



C7027A



C7035A



C7044A



C7927A

Flame Detector	Plug-In Amplifier	Honeywell Flame Safeguard Control	Minimum Acceptable Steady Current (microamps)	Maximum Current Expected (microamps)	Minimum Acceptable Voltage (Vdc)	Maximum Voltage (Vdc)
C7027A, C7035A, C7044A	R7249A	BC7000 + PM720	3.5	7.5	—	—
	R7749B (AMPLICHECK™)	BCS7700A	—	—	2.2	4.98
	R7249A	R4075C ^a , D ^a , E ^a	3.5	7.5	—	—
		R4138C ^a , D ^a	3.5	7.5	—	—
		R4140G, L, M	3.5	7.5	—	—
	R7290A	R4795A, D ^a	1.5	2.25	—	—
	None	R7023C ^a	1.5	2.25	—	—
	NONE	R7795A, C, E, G	1.5	2.25	—	—
	R7849A or R7849B (AMPLICHECK™)	7800 SERIES or R7140	—	—	1.25	5.0
C7927A	R7851B	7800 SERIES or R7140	—	—	1.25	5.0

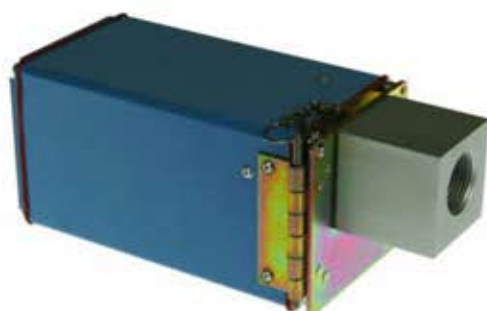


**C7012A
C7012E
C7012G
C7012C
C7012F**



UVZ-780

satronic
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C7076A



C7076D

RA890G/RA890F

Used only with a C7027, C7035 or C7044 Minipeeper Ultraviolet Flame Detector



EC/RM7800 Series

The 7800 Series burner control comprises a relay module, wiring subbase, purge timer and amplifier



TBC2800

TBC2800 series is the high-performance burner controller which is designed for commercial and industrial application and suitable for gasfiring



DCB2000

The Honeywell DCB2000 is a microprocessor-based integrated burner controller for automatically fired gas, oil or combination fuel industrial single burner power burner applications.



MMI962.1

For power gas burners
Terminals for air damper motor
Built-in remote reset for lock-outs
Possible flame detectors:
- Ionization probe
- Infrared flicker detector



DLG976-N

For 1- or 2-stage forced draught and combioil/gas burners
Possible flame detectors:
- Ionisation probe
- Infrared flicker detector 1020.1
- UV flame sensor UVD 971



TFI812

For 2-stage atmospheric gas burners
Possible flame detectors:
- Ionisation probe
- Infra-red flicker detector





R4343D



R4343E

Flame detector Relays

Flame Detector Relays R4343D and R4343E are essentially switches which, when used with the appropriate sensors, can signal the presence or absence of a flame or ultraviolet (UV) light.

- Flame current meter jack socket permits monitoring of flame signal strength.
- Plug-in mounts onto a subbase for surface mounting. (Housing meets IP40)

SPECIFICATIONS

Types	Notes	Ffirt *	Supply Voltage
R4343D1009	For rectification type sensor	1 sec.	115 Vac
R4343D1017		1 sec.	230 Vac
R4343D1041	For rectification type sensor Customer special	2 sec.	115/230 Vac (dual voltage)
R4343D1041-ST005	For rectification type sensor	2 sec.	115/230 Vac (dual voltage)
R4343E1006	For non-self checking UV sensors (Mini-Peeper)	1 sec.	115 Vac
R4343E1014		1 sec.	230 Vac
R4343E1048	For non-self checking UV sensors (Mini-Peeper), Customer special	2 sec.	115/230 Vac (dual voltage)
R4343E1048-ST005	For non-self checking UV sensors (Mini-Peeper)	2 sec.	115/230 Vac (dual voltage)

ELECTRICAL RATING: 115Vac, 230Vac (+ 10 % to - 15%), 50/60 Hz.

CONTACT: 2 isolated DPDT contacts. Rating: 2A at 0.65 power factor.

AMBIENT TEMPERATURE LIMITS: -10 to + 60°C

MAXIMUM RELATIVE HUMIDITY: 90% RH at + 40°C.

DEGREE OF PROTECTION: IP40

FLAME FAILURE RESPONSE TIME *

Less than one second (standard models).

Other timings available on request.

CLASSIFICATION: 0000XN



**M6284, M6285
M7284,
M9184, M9484**

FEATURES

- Oil immersed motor and gear train for reliable performance and long life.
- Wiring box provides NEMA 3 weather protection.
- Quick-connect terminals standard-screw terminal adapter available.
- Adapter bracket for matching shaft height of older motors is standard with replacement motors.
- Die-cast aluminum housing.
- Integral auxiliary switches are available factory mounted or can be field added to TRADELINE[®] models.
- Electrically isolated feedback potentiometer provides indication of shaft position and can be used to slave Series 90 Motors or rebalance an external control circuit.

SPECIFICATIONS

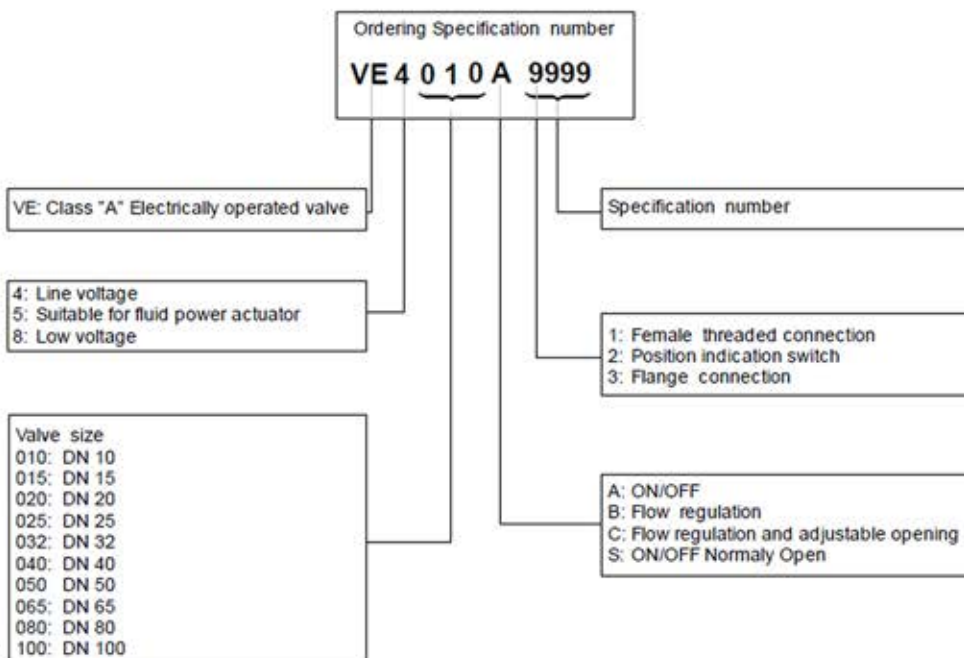
Order Number	Electrical Ratings			Torque		Timing	Stroke (degrees)
	Power Supply	Power					
		W	VA	lb-in.	N-m		
M6284A1055	120 Vac at 50/60 Hz	20	25	150	17	30 sec	90
M6284A1063	120 Vac at 50/60 Hz	15	17	150	17	30 sec	90
M6284D1000	24 Vac at 50/60 Hz	15	17	150	17	30 to 60 sec	90
M6284F1013	24 Vac at 50/60 Hz	15	17	150	17	30 to 60 sec	90
M6285A1005	24 Vac at 50/60 Hz	20	21	60	6.8	60 sec	160
M7284A1004	120 Vac at 50/60 Hz	23	29	150	17	30 sec	90
M7284A1012	120 Vac at 50/60 Hz	23	29	150	17	60 sec	160
M7284C1000	120 Vac at 50/60 Hz	23	29	150	17	30 sec	90
M7284Q1009	120 Vac at 50/60 Hz	23	29	150	17	30 sec	90
M9184F1034	24 Vac at 50/60 Hz	18	19	150	17	30 to 60 sec	30 to 60 sec
M9484E1033	24 Vac at 50/60 Hz	18	19	150	17	30 to 60 sec	30 to 60 sec



VE SERIES **UNIVERSAL GAS VALVES**

FEATURES

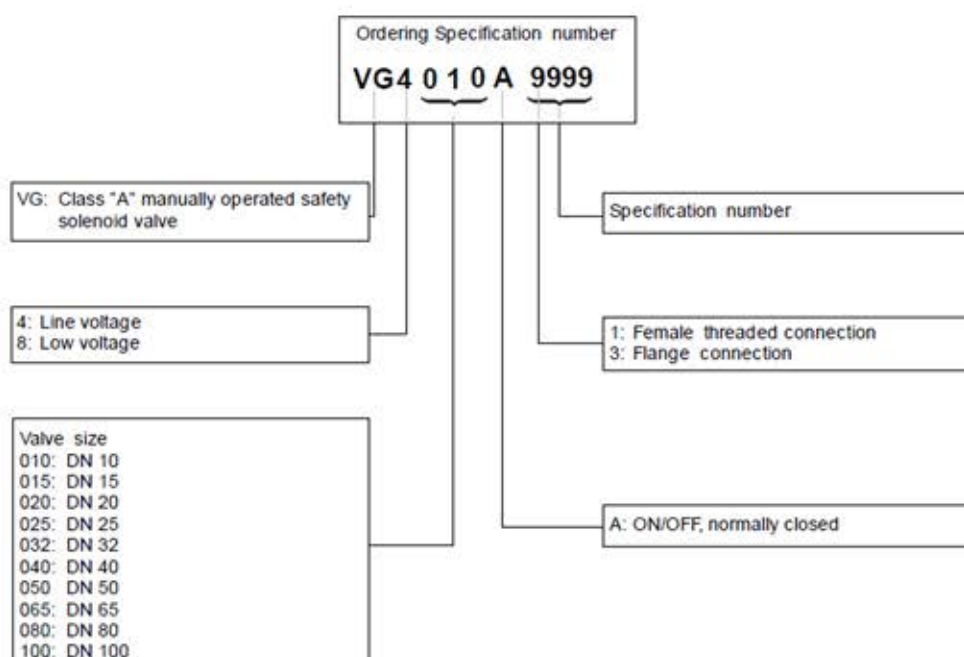
- : Class A valve for control of gas consuming appliances.
- : The VE....X series gas valves except VE....S series have a spring loaded valve disc, closed when de-energized.
- : The VE....S series gas valves have a spring loaded valve disc, opened when de-energized.
- : Incorporating time proven design concepts assuring reliability.
- : All VE.... series gas valves have an internal fine mesh screen.



VG SERIES **UNIVERSAL GAS VALVES**

FEATURES

- : Class "A" manually operated safety solenoid valves for use in gas leak detection systems.
- : The VGxxxxA series safety solenoid valves have a spring loaded valve disc which closes when de-energized.
- : All VGxxxx series safety solenoid valves have an internal fine mesh screen.
- : Two inlet pressure stops at each side of the valve.





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**ZT801, ZT802, ZT812,
ZT812B, ZT815**

TECHNICAL DATA

Model No	ZT 801	ZT 802	ZT 812	ZT 812B	ZT 815
Supply Voltage (+10%, -15%)	230 V	240 V	220/240 V	220/240 V	110 V/120 V
Supply Frequency (+ / -20%)	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power Consumption	50 VA	50 VA	50 VA	50 VA	50 VA
Secondary Voltage $\hat{U}$	2 x 7 kV	2 x 7 kV	10 kV	11,5 kV	8 kV
Secondary Current I_s	17 mA	16 mA	16 mA	19 mA	16 mA
Max. spark gap setting in mm	3-5 mm	3-5 mm	2-3 mm	2-4 mm	2-3 mm
Output Frequency	20 kHz				
Max. working ambient temperature	-10 bis +60° C				
Rating	Intermittent, 25% E.D.in 3 minutes				
Mounting attitude	Any				
Weight	approx. 230 gr.				
H.T. cable only	Silicon insulated, temperature rating 175° C				

Applicable to all types



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ZT931

TECHNICAL DATA

Supply voltage 220 / 240 V (-15... +10%)

50 Hz (40 - 60 Hz)

Connections:

Live / neutral / earth 3 AMP plug type terminals

6.30 x 0.8 mm

High tension $\varnothing$ 4 mm pin or $\varnothing$ 1 mm pin

Primary current 0.25 A

Rating Intermittent,

33 % E.D. in 3 minutes

Interference level <N (VDE 0875)

Ignition voltage 1 x 14 kV

Secondary current 40 mA rms

Secondary frequency 20 kHz

Spark gap 3 - 5 mm

Ignition cable plug-in type

Insulation standard IP 40

Permissible ambient -10°C... +60°C
temperature

Mounting attitude any

Weight 280 g



DWR
Pressure limiters



Product Summary

Type	Setting range	Switching differential (mean values)	Maximum working pressure	Dimensioned drawing
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Maximum pressure limiters

page 25 + 26

DWR06-205	0.1...0.6 bar	0.06 bar	6 bar	1 + 15
DWR1-205	0.2...1.6 bar	0.09 bar		
DWR3-205	0.2...2.5 bar	0.20 bar	16 bar	1 + 18
DWR6-205	0.5...6 bar	0.30 bar		
DWR625-205	0.5...6 bar	0.50 bar	25 bar	1 + 17
DWR16-205	3...16 bar	0.70 bar		
DWR25-205	4...25 bar	1.4 bar	63 bar	1 + 16
DWR40-205	8...40 bar	2.3 bar		

Minimum pressure limiters

DWR06-206	0.1...0.6 bar	0.06 bar	6 bar	1 + 15
DWR1-206	0.2...1.6 bar	0.09 bar		
DWR3-206	0.2...2.5 bar	0.20 bar	16 bar	1 + 18
DWR6-206	0.5...6 bar	0.30 bar		
DWR625-206	0.5...6 bar	0.50 bar	25 bar	1 + 17
DWR16-206	3...16 bar	0.70 bar		
DWR25-206	4...25 bar	1.4 bar	63 bar	1 + 16
DWR40-206	8...40 bar	2.3 bar		



DCM/DNM
Pressure switches and pressure monitors for overpressure



Product Summary

Type	Setting range	Switching differential (mean values)	Max. permissible pressure	Materials in-contact with medium	Dimensioned drawing
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Switching differential not adjustable

page 25 + 26

DCM4016	1...16 mbar	2 mbar	1 bar	Perbunan	1 + 11
DCM4025	4...25 mbar	2 mbar	1 bar	+ 1.4301	
DCM1000	10...100 mbar	12 mbar	10 bar	Perbunan + MS	1 + 10
DCM025	0.04...0.25 bar	0.03 bar	6 bar	Cu + Ms	
DCM06	0.1...0.6 bar	0.04 bar	6 bar	Cu + Ms	1 + 14
DCM1	0.2...1.6 bar	0.04 bar	6 bar	Cu + Ms	
DNM025	0.04...0.25 bar	0.03 bar	6 bar		1 + 15
DCM506	15...60 mbar	10 mbar	12 bar		1 + 12
DCM3	0.2...2.5 bar	0.1 bar	16 bar	Sensor housing	1 + 18
DCM6	0.5...6 bar	0.15 bar	16 bar		
DCM625	0.5...6 bar	0.25 bar	25 bar	1.4104	1 + 17
DCM10	1...10 bar	0.3 bar	25 bar	+	
DCM16	3...16 bar	0.5 bar	25 bar	Pressure bellow	
DCM25	4...25 bar	1.0 bar	60 bar		1 + 16
DCM40	8...40 bar	1.3 bar	60 bar	1.4571	
DCM63	16...63 bar	2.0 bar	130 bar		

Switching differential adjustable

DCMV025	0.04...0.25 bar	0.03...0.4 bar	6 bar		
DCMV06	0.1...0.6 bar	0.04...0.5 bar	6 bar	Cu + Ms	1 + 14
DCMV1	0.2...1.6 bar	0.07...0.55 bar	6 bar		
DCMV3	0.2...2.5 bar	0.15...1.5 bar	16 bar	Sensor housing	1 + 18
DCMV6	0.5...6 bar	0.25...2.0 bar	16 bar		
DCMV625	0.5...6 bar	0.25...2.0 bar	25 bar	1.4104	1 + 17
DCMV10	1...10 bar	0.5...2.8 bar	25 bar	+	
DCMV16	3...16 bar	0.7...3.5 bar	25 bar	Pressure bellow	
DCMV25	4...25 bar	1.3...6.0 bar	60 bar		
DCMV40	8...40 bar	2.6...6.6 bar	60 bar	1.4571	1 + 16
DCMV63	16...63 bar	3.0...10 bar	130 bar		



DWAM, DWAMV

Pressure monitors /
pressure limiters

Product Summary

Type	Setting range	Switching differential (mean values)	Max. permissible pressure	Dimensioned drawing
Pressure monitors without differential adjustment for max. pressure monitoring*				
				page 25 + 26
DWAM06	0.1...0.6 bar	0.04 bar	5 bar	
DWAM1	0.2...1.6 bar	0.05 bar	5 bar	1 + 15
DWAM6	1.2...6 bar	0.2 bar	10 bar	
DWAM625	1.2...6 bar	0.25 bar	20 bar	
DWAM16	3...16 bar	0.4 bar	20 bar	1 + 19
DWAM32	6...32 bar	1.2 bar	45 bar	
Pressure monitors with differential adjustment for max. pressure monitoring				
DWAMV1	0.2...1.6 bar	0.12...0.6 bar	5 bar	1 + 15
DWAMV6	1.2...6 bar	0.4...1.5 bar	10 bar	
DWAMV16	3...16 bar	0.8...2.5 bar	20 bar	1 + 19
DWAMV32	6...32 bar	2.5...6.0 bar	45 bar	
Pressure limiters for maximum pressure monitoring (with internal interlock)				
Pressure change for unlocking				
SDBAM1	0.2...1.6 bar	0.12 bar	5 bar	
SDBAM2,5	0.4...2.5 bar	0.15 bar	5 bar	1 + 15
SDBAM6	1.2...6 bar	0.4 bar	10 bar	
SDBAM625	1.2...6 bar	0.6 bar	20 bar	
SDBAM16	3...16 bar	0.8 bar	20 bar	1 + 19
SDBAM32	6...32 bar	3.0 bar	45 bar	