Системы продувки и повышения давления Ex pxb и Ex pyb серии 6500

Технические характеристики

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Ex pxb and Ex pyb purge and pressurization system

6500-01-*-PNO-LNO

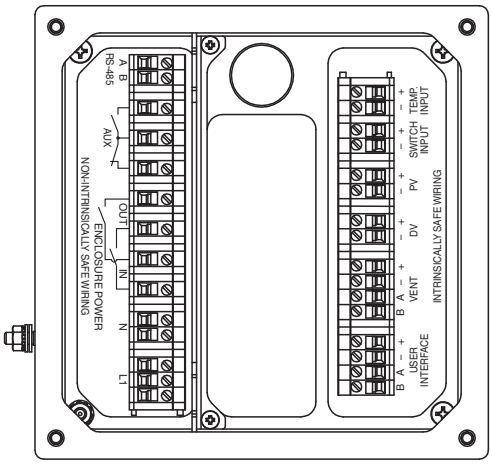
- Automatic purge and pressurization system for most applications
- User-friendly, easy programming
- LCD screen for operation status and LEDs for quick visual system identification
- HART communication via RS-485 with PACTware and device app via Bluetooth
- Maximum enclosure size 12.75 cubic meters
- Compact design with panel mounts or direct mounts available
- Universal power 20 to 30 VDC / 100 to 250 VAC. 50 to 60 HZ
- Pressure, temperature, dilution control and monitoring
- Up to SIL 2 acc. to IEC/EN 61508

6500 series Ex pxb and Ex pyb purge and pressurization system

Function

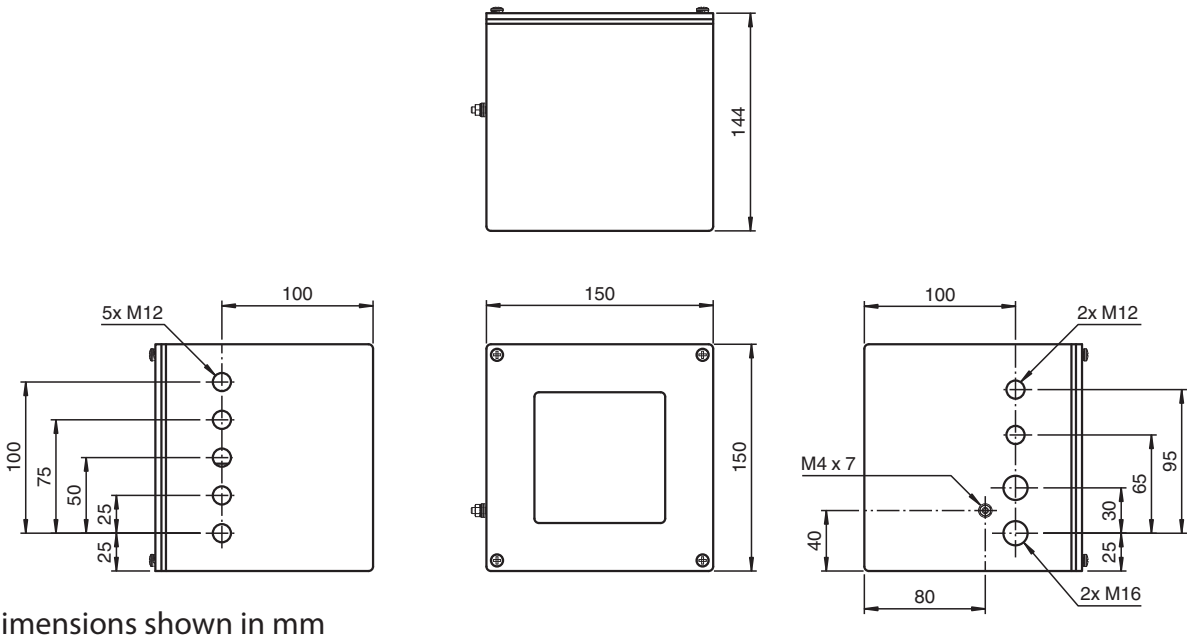
The 6500 series purge and pressurization system consists of a control unit, an EPV-6500 enclosure protection vent, and a valve for pressurization, purging, and, with some models, dilution for analyzer applications.
The compact 6500 control unit features an LCD user interface with sealed capacitive touch buttons. LEDs provide quick indication of the system status. The control unit has an input for a 2-wire RTD for temperature control/monitoring. Models are available that allow the user interface to be panel mounted to an enclosure wall or mounted onto the exterior of the enclosure. A HART output allows the control unit to be connected to a PC using PACTware or the customer's AMS for remote monitoring. An app for Android, BlackBerry, and Apple devices allows connectivity via Bluetooth®.

Connection



Release date: 2024-05-08 Date of issue: 2024-05-08 Filename: t179869_eng.pdf

Dimensions



Dimensions shown in mm

Technical Data

General specifications		
Operating mode		user programmable
Series		6500
System		
Number of volume exchanges		5 to 19
Hazardous environment		gas, dust, gas and dust
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 2
Supply		
Rated voltage	U_r	100 ... 240 V AC, 48 ... 62 Hz / 0.2 A 20 ... 30 V DC
Electrical specifications		
Connection		**EPCU**: Terminal blocks and grounding screw **UIC**: 4-pin conncector and cable (provided), for the 6500-01-PM02, cable length is 5 meters **Input type**: intrinsically safe
Interface		
Physical		Bluetooth® 4.1
Transmitter frequency		2.4 ... 2.4835 GHz
Transmitter radiated power		-19 ... 7.5 dBm
Sensitivity		-92.5 dBm at 0.1 % BER
Detection range		100 m in air
Antenna		PCB
Communication		
Bluetooth		declaration ID: D037849
Input		
Input I		Voltage free contact or namur proximity sensor
Input type		Intrinsically Safe, Ex ib
Input II		(1) 2-wire, PT100 RTD
Input type		Intrinsically Safe, Ex ib
Output		

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Technical Data

Output I	AUX
Output type	Voltage free contact outputs, SPDT configuration
Inrush current	2 A
Contact loading	2 A @ 240VAC, resistive, 2 A @ 24VDC
Output II	Enclosure
Output type	Voltage free contact outputs, 2 N.O. configuration
Inrush current	8 A
Contact loading	8A @ 240 V AC, resistive up to 60 °C 8A @ 24 V DC up to 60 °C 5A @ 240 V AC, resistive, 60 to 70 °C 5A @ 24 V DC up to 60 to 70 °C
Fuse	External fusing is required at no more than 11 amps/1500 A breaking current
Output III	Digital valve When used with the 6500-MAN-DV-01, intrinsically safe Internal resistance 280 Ω
Output IV	Proportional valve When used with the 6500-MAN-PV-01, intrinsically safe Current: 4 to 20 mA Max. load: 300 Ω
Communication	HART via RS485 (PACTware available)
Indicators/settings	
Display elements	2x20 LCD for configuration, monitoring, and status of the 65000 system with back light and contrast selection. Capacitive touch buttons
LED indication	Safe pressure: Blue - safe pressure is achieved Enclosure power: Green - power on; Red - power off Rapid exchange: Blue - purging is running System bypass: Yellow - bypass is activated Alarm fault: Red (blinking) - any alarm input detected; Red (solid) - 6000 series system fault Key: green - a button on the capacitive touch display has been activated. Momentary indication
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	For 6500-MAN-DV: 1.4 to 8.3 bar (20 to 120 psig) regulated For 6500-MAN-PV: 3.5 to 6.9 bar (50 to 100 psig) regulated Note: max. pressure will depend on the vent model used.
Safe pressure	Gas: 0.82 mbar (0.33 in wc) Dust: 0.82 mbar (0.33 in wc) Gas+Dust: 0.82 mbar (0.33 in wc)
Valve flows	**Standard vent series**: EPV-6500-*-01, 03, 05 Readout on display is from 56 to 850 l/min (2 to 30 scfm) in increments of 28l/min (1 scfm). Minimum and maximum reading depending on type of vent and supply pressure. See datasheet for EPV-6500 series vent. **Continuous (Dilution) vent series**: EPV-6500-*-07, 08 Readout on display is from 17 to 226 l/min (0.6 to 8 scfm) continuous reading. Maximum reading depending on type of vent and supply pressure. See datasheet for EPV-6500 series vent.
Ambient conditions	
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	5 ... 85 %, non-condensing
Vibration resistance	5 ... 100 Hz , 1 g, 12 m/s², all axes
Impact resistance	30 g, 11 ms, all axes
Mechanical specifications	
Connection type	See mounting in 6500 manual and cable gland requirements
Cable gland	**Cable gland requirement**: cable glands are not included. Customer can supply their own approved glands or use one of the 6500-CBLG-... cable gland kits. **I.S.cable glands**: requires (5) M12 approved cable glands **Power cable glands**: requires (2) M16 and (2) M12 approved cable glands
Degree of protection	IP66
Material	**UIC display**: Makrolon FI cover and A380 Aluminum anodized casing **Housing**: 316L stainless steel **Hardware**: 316L stainless steel
Mass	approx. 5 kg (11.0 lbs)

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Technical Data

Dimensions	6500-01-EXT1: 150 x 150 x 145 mm (5.9" x 5.9" x 5.7") 6500-01-PM01: 150 x 150 x 185 mm (5.9" x 5.9" x 7.3") 6500-01-PM02: EPCU: 150 x 150 x 145 mm (5.9" x 5.9" x 5.7"), UIC: 150 x 150 x 45 mm (5.9" x 5.9" x 1.8")
Height	367.5 mm
Width	183 mm
Depth	152.5 mm
Data for application in connection with hazardous areas	
Certificate	DEMKO 16 ATEX 1640X
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018 , EN 60079-2:2014 , EN 60079-5:2015 , EN 60079-7:2015+A1:2018 , EN 60079-11:2012 , EN 60079-31:2014
International approvals	
IECEx approval	IECEx UL 16.0003X
General information	

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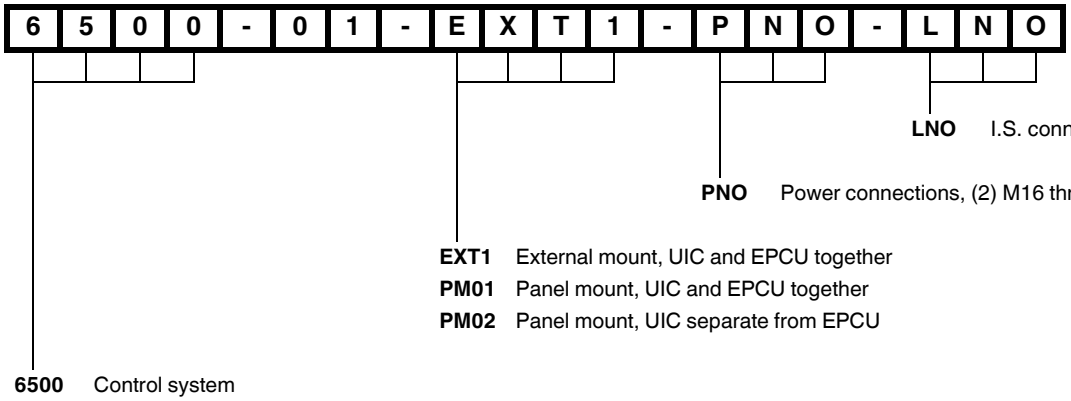
Type Code


6 5 0 0 - 0 1 - E X T 1 - P N O - L N O
LNO I.S. connections, (5) M12 threads
PNO Power connections, (2) M16 threads, (2) M12 threads
EXT1 External mount, UIC and EPCU together
PM01 Panel mount, UIC and EPCU together
PM02 Panel mount, UIC separate from EPCU
6500 Control system

6500 Control Unit Mounting Brackets

6500-01-*-BKT01

- Mounting brackets for 6500 external or internal mounting
- Mounting hardware included
- 316 Stainless steel material
- Universal external mount for top, bottom, side mounting
- Easy mounting bracket to most flat panels for internal mounting

Type Ex px purge and pressurization system

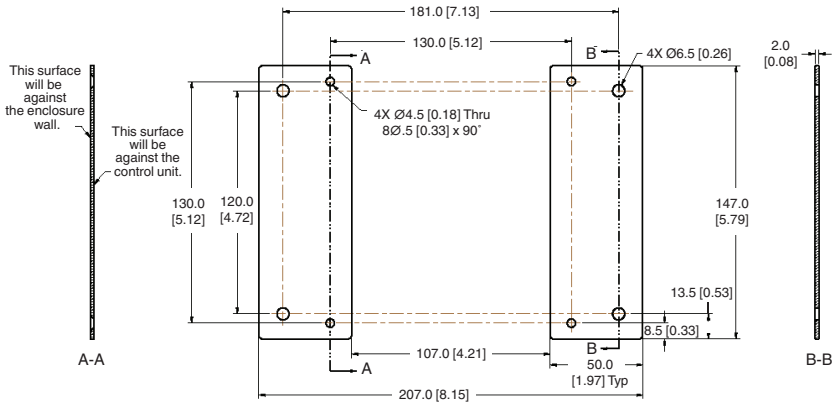
CE

Function

To be used with the 6500 control unit for easy external or internal mounting to the pressurized enclosure.
Includes mounting bracket to secure the 6500 control unit to the enclosure, as well as the necessary mounting equipment.
The 6500-01-EXT1-*BKT01 is for mounting the 6500 to the enclosure externally.
The 6500-01-INT1-BKT01 is for mounting the 6500 inside the enclosure or to a flat panel.

Dimensions

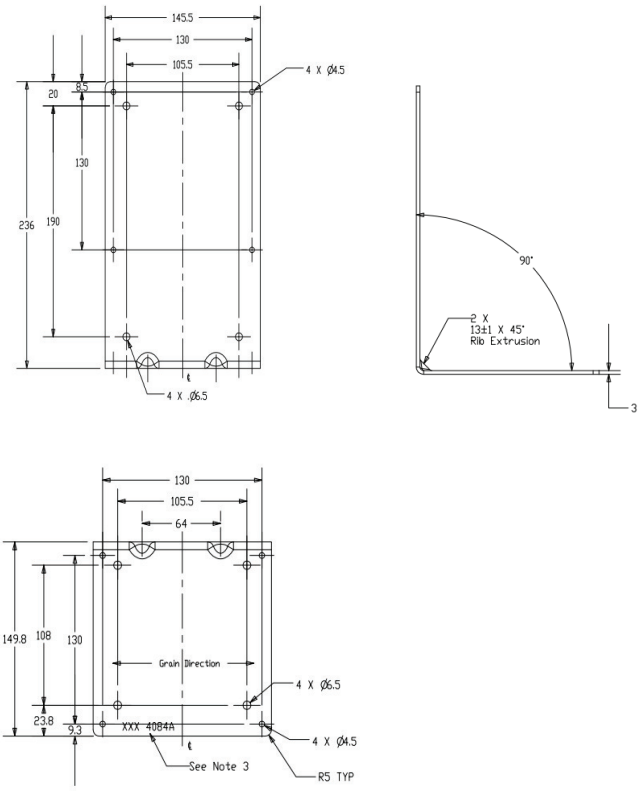
6500-01-INT1-BKT01



Release date: 2024-02-12 Date of issue: 2024-02-12 Filename: t180358_eng.pdf

Dimensions

6500-01-EXT1-BKT01

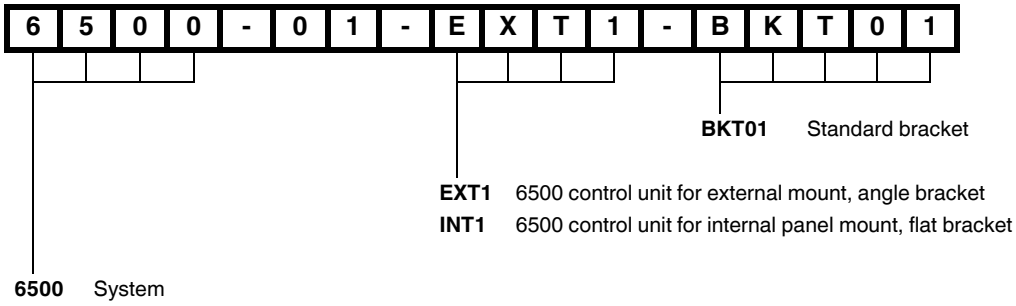


Technical Data

General specifications		
Operating mode		For mounting 6500 control unit to enclosure or back panel
Series		6500
Mechanical specifications		
Material		**Bracket**: 316/316L stainless steel **Mounting bolts (bracket to enclosure)**: (4) M6, 316 stainless steel (included) **Sealing washers**: (4) silicon rubber (included) **Mounting bolts (EPCU to bracket)**: (1) M4x0.7, 316 stainless steel (included)
Mass		**6500-01-EXT1-BKT01**: 1.8 kg **6500-01-INT1-BKT01**: 2 kg
Dimensions		see dimension drawing
General information		
Scope of delivery		Two (2) brackets included for each 6500-01-INT1-BKT01. Mounting hardware also included.

Release date: 2024-02-12 Date of issue: 2024-02-12 Filename: t180358_eng.pdf

Type Code


6 5 0 0 - 0 1 - E X T 1 - B K T 0 1
BKT01 Standard bracket
EXT1 6500 control unit for external mount, angle bracket
INT1 6500 control unit for internal panel mount, flat bracket
6500 System

6500 Series Vent

EPV-6500-*-*

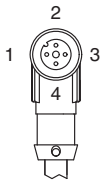
- A selection of vents for specific applications
- Intrinsically safe operation
- Continuous flow vents for precise flow rates for dilution applications
- Continuous flow measurement for dilution, purging, and pressurization
- Low leakage rate vents for air or inert gas conversation
- High flow rate vents for fast, large enclosure systems
- Universal mounting in any orientation including most of the unit inside the enclosure
- Maximum enclosure size 12.75 cu.meters (450 cu.ft.)
- ATEX/IECEx Zone 1/21 certified for Ex pyb and Ex pxb
- Up to SIL 2 acc. to IEC/EN 61508

Enclosure protection vent for 6500 series type Ex pyb Ex pxb purge and pressurization system

Function

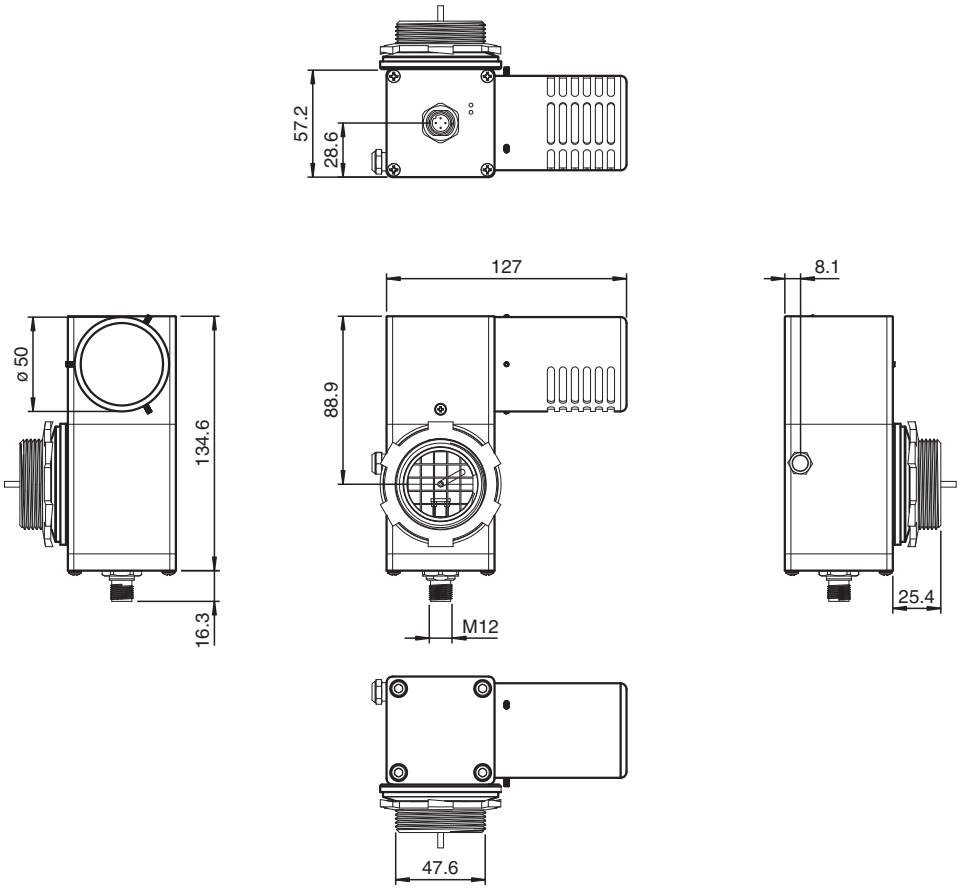
EPV-6500-*-* enclosure protection vents provide pressure relief to pressurized enclosures and pressure and flow information to 6500 series control units. The vents are intrinsically safe when used in conjunction with a 6500 control unit. Vent models are available for standard applications or continuous flow dilution applications that require precise flow measurement. For a streamlined enclosure design, the vent can be mounted in any orientation and can be mounted inside a pressurized enclosure with just the vent cap outside of the enclosure. EPV-6500-SS-* models include reference pressure tubing and hardware for internal mounting.

Connection



	4-PIN
1	+ (brown)
2	A (white)
3	– (blue)
4	B (black)

Dimensions



Dimensions shown in mm

Technical Data

General specifications		
Series		6500
System		Ex pxb Purge , Ex pyb Purge
Number of volume exchanges		5 to 19
Hazardous environment		gas, dust, gas and dust
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 2
Electrical specifications		
Connection		
Signal		BUS back to the 6500 control unit
Connection		M12 connector, 4-pin, cable length 5 meters (provided)
Cable length		max. 60 meters at 50 pf/ft and 0.2 µH/ft
Indicators/settings		
LED indication		POWER: green
Pneumatic parameters		
Protective gas supply		instrument grade air or inert gas
Maximum pressure		depends on the integrity of the enclosure (strength) vent pressure range: 0 to 25 mbar (0 to 9.9 in wc)

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Technical Data

Safe pressure	Gas: 0.82 mbar (0.33 in wc) Dust: 0.82 mbar (0.33 in wc) Gas+Dust: 0.82 mbar (0.33 in wc)
Purge flow rate	See graphs Readout on display is in increments of 28 l/min (1 scfm). Minimum and maximum reading depends on type of vent and supply pressure. EPV-6500-*-07, 08 will readout continuous flow.
Purge flow and enclosure pressure rate	See graphs Readout on display is in increments of 28 l/min (1 scfm). Minimum and maximum reading depends on type of vent and supply pressure. EPV-6500-*-07, 08 will readout continuous flow.
Flow rate for leakage compensation	EPV-6500....-01: 593 l/hr (21 scfh) @ 0.63 mbar (0.25 in wc) 1640 l/hr (58 scfh) @ 1.9mbar (0.75 in wc) EPV-6500....-03: 395 l/hr (14 scfh) @ 0.63 mbar (0.25 in wc) 961 l/hr (34 scfh) @ 1.9 mbar (0.75 in wc) EPV-6500....-05: 260 l/hr (9.2 scfh) @ 0.63 mbar (0.25 in wc) 622 l/hr (22 scfh) @ 1.9 mbar (0.75 in wc) EPV-6500....-07: n/a EPV-6500....-08: n/a
Breaking pressure	EPV-6500-...-01: 2.0 mbar (0.8" wc) EPV-6500-...-03: 3.5 mbar (1.4" wc) EPV-6500-...-05: 3.8 mbar (1.5" wc) EPV-6500-...-07: n/a EPV-6500-...-08: n/a
Conformity	
Degree of protection	EN 60529
Shock resistance	EN 60068-2
Ambient conditions	
Ambient temperature	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	5 ... 90 %, non-condensing
Vibration resistance	5 ... 100 Hz , 1 g, 12 m/s², all axes
Impact resistance	30 g, 11 ms, all axes
Mechanical specifications	
Degree of protection	IP66 rated sealing washer and electronics housing
Material	EPV-6500-AA-.... Cap: marine grade 5052 anodized aluminum, marine grade 6061T6 anodized aluminum EPV-6500-SS-.... Cap: 316L (UNS S31603) stainless steel; Body: marine grade 6061T6 anodized aluminum
Spark arrestor	304 (UNS S30400) stainless steel
Installation	- any orientation to enclosure - not gravity dependent - internal and external mounting possible
Mass	approx. 1.4 kg (3.1 lb)
Dimensions	127 x 146 x 83 mm (5.0" x 5.8" x 3.3")
Mounting	1 ½" NPT knockout (50.8mm (2") hole) with seal nut included
Data for application in connection with hazardous areas	
EU-type examination certificate	DEMKO 15 ATEX 1622X
Marking	Ex II 2G Ex ib [pxb Gb] IIC T4 Gb Ex II 2D Ex ib [pxb Db] IIIC T135 °C Db Ex II 2G Ex ib [pyb Gb] IIC T4 Gb Ex II 2D Ex ib [pyb Db] IIIC T135 °C Db
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018 , EN 60079-2:2014 , EN 60079-11:2012

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Technical Data

International approvals		
IECEx approval		
IECEx certificate		IECEx UL 15.0147X
IECEx marking		Ex ib [pxb Gb] IIC T4 Gb Ex ib [pxb Db] IIIC T135 °C Db Ex ib [pyb Gb] IIC T4 Gb Ex ib [pyb Db] IIIC T135 °C Db EPV-6000: -20 °C ≤ T_{amb} ≤ 60 °C EPV-6500: -20 °C ≤ T_{amb} ≤ 70 °C
General information		

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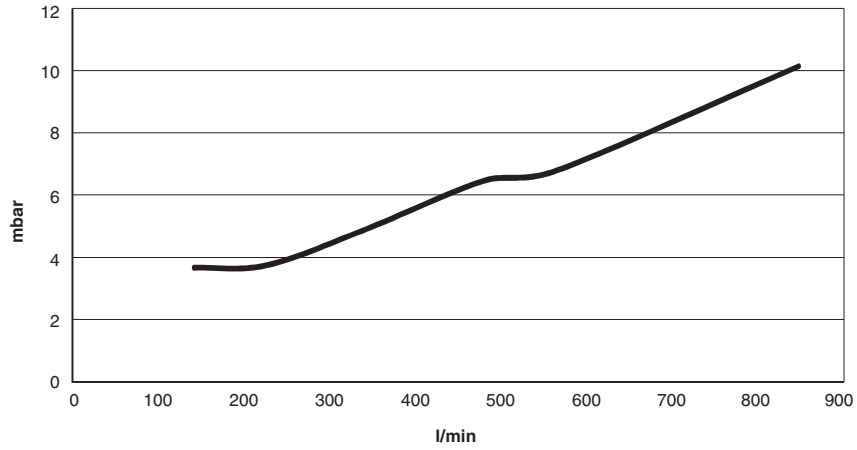
Characteristic Curve

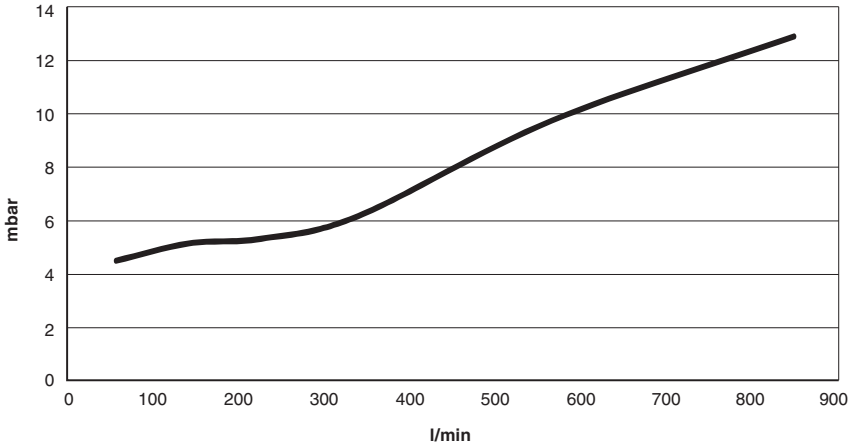
Flow Rate Curves

Standard Vent Pressure / Flow Curves

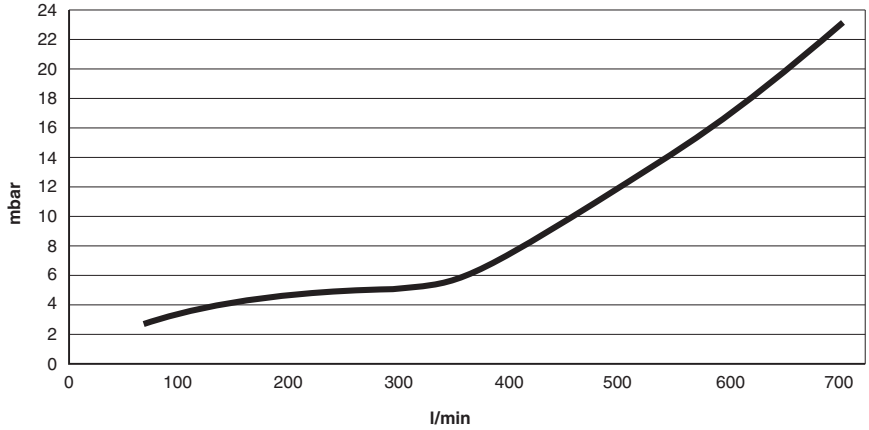
EPV-6500-*-01



EPV-6500-*-03



EPV-6500-*-05



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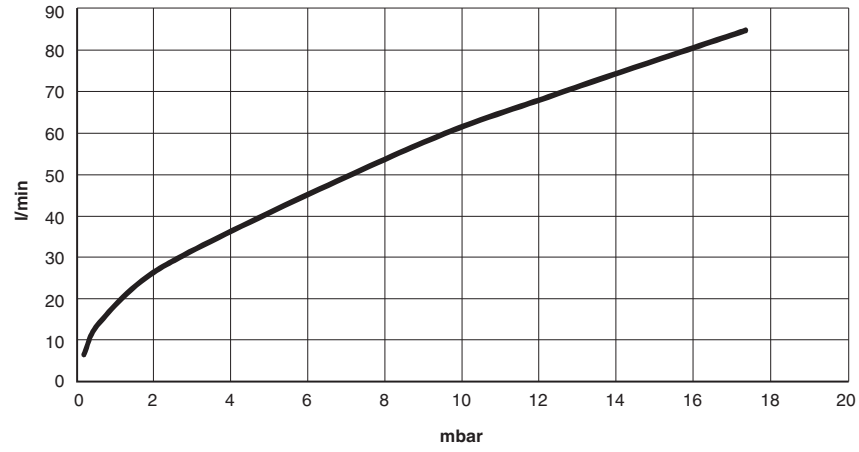
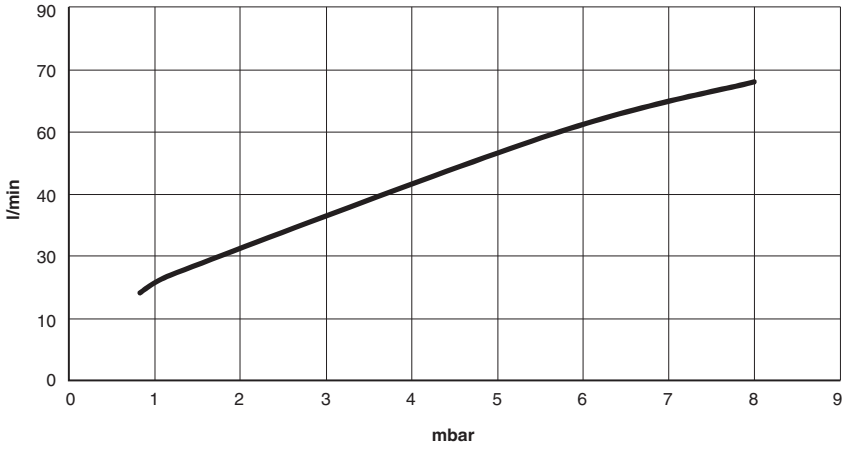
Continuous Vent Pressure / Flow Curves

EPV-6500-*-07: 8 mm Orifice



EPV-6500-*-08: 16 mm



Note:

These graphs should only be used for representation of flow and pressure through each type of vent and not used for calculating purge time. They can be used for estimating purge time but the actual purge time will be automatically calculated by the 6500 control unit. These graphs are used to determine which vent type will be best suited for the application.

Type Code

E	P	V	-	6	5	0	0	-	A	A	-	0	1

Configuration

01	High flow rate, low enclosure pressure, high leakage rate
03	Medium flow rate, medium encl pressure, medium leakage rate
05	Low flow rate, High enclosure pressure, low leakage rate
07	Continuous flow, 17 l/min to 85 l/min(0.6 to 3.0 scfm)
08	Continuous flow, 71 l/min to 226 l/min(2.5 to 8.0 scfm)

Material

AA	6000 series aluminum anodized body and cap
SS	6000 series aluminum anodized body and 316L stainless steel cap

Series of vents

6500	EPV-6500 vent

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6500 proportional Valve

6500-MAN-PV-01

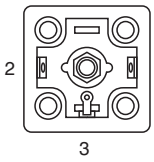
- Intrinsically Safe, 4 ... 20 mA proportional valve
- Pneumatic connections 10 mm compression ferrule tube fittings
- ATEX certification
- Maximum flow of around 8 scfm
- Closed loop flow rate control for precise dilution applications

Type Ex px purge and pressurization system

Function

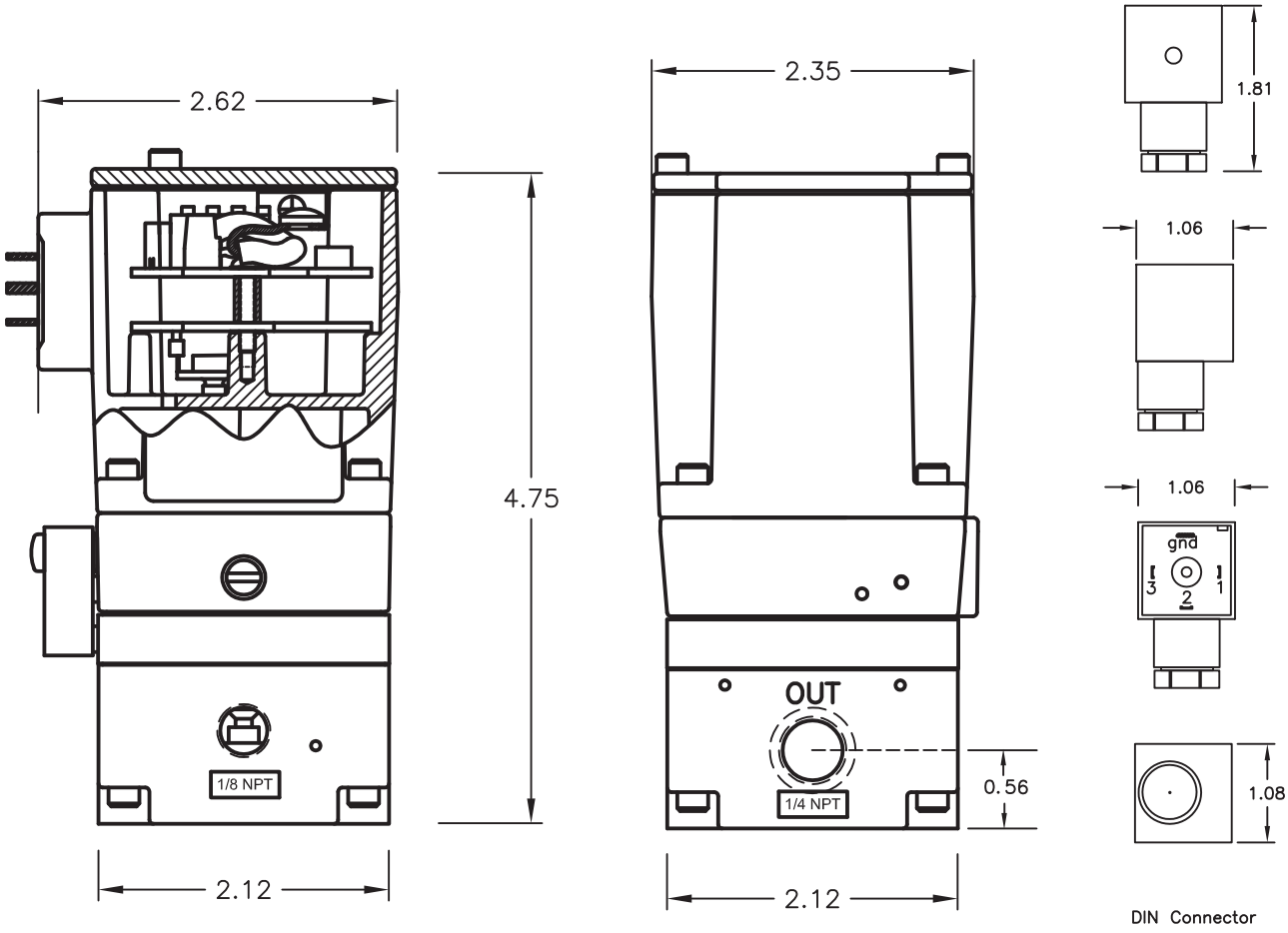
The 6500-MAN-PV-01 proportional valve consists of a Bellofram Type 2000 I/P, 10 mm ferrule fittings for tubing, and 10 mm tube bulkhead fitting with tubing included for connection to the enclosure. The 6500-MAN-PV-01 is designed to be used with the 6500 control unit system in 'PROPORTIONAL' mode for dilution applications. This system offers an ideal solution for precisely controlling the flow of protective air to maintain the dilution area within the enclosure when a containment system leaks under normal and/or abnormal conditions.

Connection



2	+
3	–

Dimensions



Technical Data

General specifications	
Operating mode	automatic purging + pressurization
Series	6500
Electrical specifications	
Supply	I.S. 4 to 20 mA loop powered Entity Parameters: U_i = 30 V I_i = 200 mA C = µS L = 0 µH P_1 = 1 w total
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	1.0 bar (15 psi) to 8.3 bar (120 psi)
Safe pressure	Gas: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Gas+Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa)
Valve flows	**6500-MAN-PV**: Proportional valve Purging/pressurization/dilution: 17 l/min to 226 l/min (0.6 to 8 scfm)
Connections	Inlet and outlet of valves **6500-MAN-PV-01**: 3/8"NPT, double ferrule 10mm compression fittings (included)
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Connection type	10 mm stainless steel ferrule tube fittings

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Technical Data

Cable gland	I.S. connection: Hirschmann DIN 43650-A connector
Degree of protection	IP65 (DIN connector)
Material	painted aluminum body
Mass	700 g (1.5 lbs)
Dimensions	134 x 57 x 80 mm (5.3" x 2.3" x 3.2")
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	ATEX II 1 G EEx ia IIC T4 Tamb= -20 to 60 °C
Directive conformity	CE

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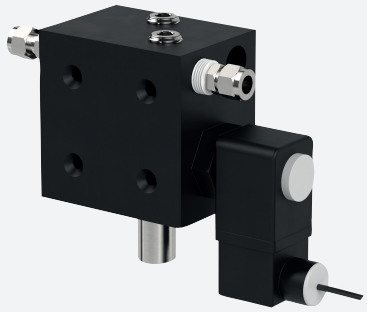


6500 digital valve

6500-MAN-DV

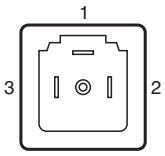
- Suitable for Zone 1&1 operation, ATEX/IECE certification
- Intrinsically safe when connected to the 6000 or 6500 control unit
- Manifold combines the digital valve for purging and the needle valve for pressurization in one housing
- Suitable for steel or plastic tubing
- Mounting hardware, pneumatic fittings and tubing included

Type Ex px purge and pressurization system

Function

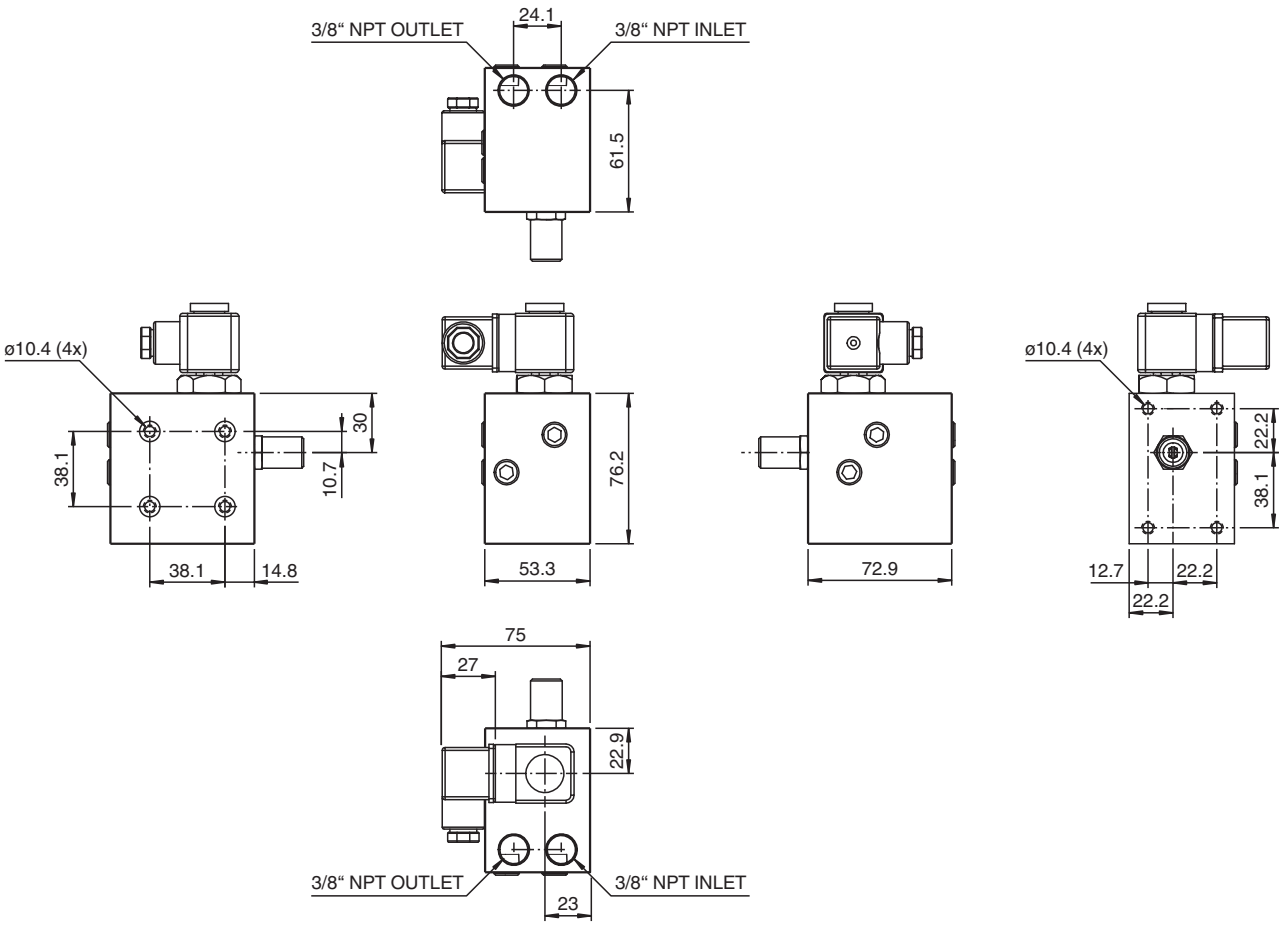
The 6500-MAN-DV-01 combines a digital valve for purging and a needle valve for pressurization in to one manifold design. When the valve is energized, the digital valve opens and allows for a high flow rate of protective gas into the enclosure. When the valve is de-energized, the flow through the internal needle valve is adjustable by a flathead screw driver through the needle stem on the manifold. The digital valve is used for purging, excess leakage compensation (pressure as input), and temperature control through user selected functions in the 6000/6500 control unit. Mounting hardware includes 10 mm tube compression fittings mounted on the manifold for input and output flow, 10mm tube compression bulkhead fitting for getting flow into the enclosure, and seal washers with bolts to mount the manifold to the enclosure. Also included is a 1 meter of 3/8" polytubing with 10 mm poly tube stiffener inserts which allows the connection of plastic tubing to compression fittings without collapsing the tubing.

Connection



1	GND
2	–
3	+

Dimensions



Technical Data

General specifications	
Operating mode	automatic purging + pressurization
Series	6500
Hazardous environment	gas or dust
Supply	
Rated power	Intrinsically safe supply from the 6500 control unit
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	1.4 (20 psig) to 8.3 bar (120 psig)
Safe pressure	Gas: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa) Gas+Dust: 0.35" wc (8,88 mm wc) (0.88 mbar/ 88 pa)
Purge flow rate	Digital valve : Cv (flow coefficient) = 1.4 needle valve : Cv (flow coefficient) = 0.24
Connections	Inlet and outlet of valves 3/8"NPT, double ferrule 10mm compression fittings (included)
Ambient conditions	
Ambient temperature	-28 ... 65 °C (-18.4 ... 149 °F)
Storage temperature	-28 ... 65 °C (-18.4 ... 149 °F)
Mechanical specifications	
Connection type	10 mm stainless steel ferrule tube fittings
Cable gland	I.S. connection: Hirschmann DIN 43650-A connector
Degree of protection	IP65 (DIN connector)

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Technical Data

Material	**Housing**: anodized aluminum **3/8" compression fittings**: 316L stainless steel **Pressure ports**: 10 mm **Bulkhead fitting**: 10 mm fitting, 316L stainless steel **Mounting bolts**: 1/4 - 20, 316 stainless steel **Sealing washers**: silicone rubber **Input/Output ports**: 10 mm tube compression fittings
Mass	850 g (1,87 lbs)
Dimensions	153 x 105 x 56 mm (6.0" x 4.2" x 2.2")

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6500 cable gland kit

6500-CBLG-01-*

- Complete approved cable glands, plugs, and nuts for installation to the 6500 control unit
- Selection of material - stainless steel, nickel plated brass, or plastic
- ATEX/IECEx approved / II 2G 1D

Type Ex px purge and pressurization system

CE

Function

The 6500 control unit does not come with cable glands so that customers can use their own approved glands.
The 6500-CBLG offers a complete set of approved cable glands for the 6500 control unit I.S. and Power sides.
Selection of material allows customers to select the best cable gland for their applications.

Technical Data

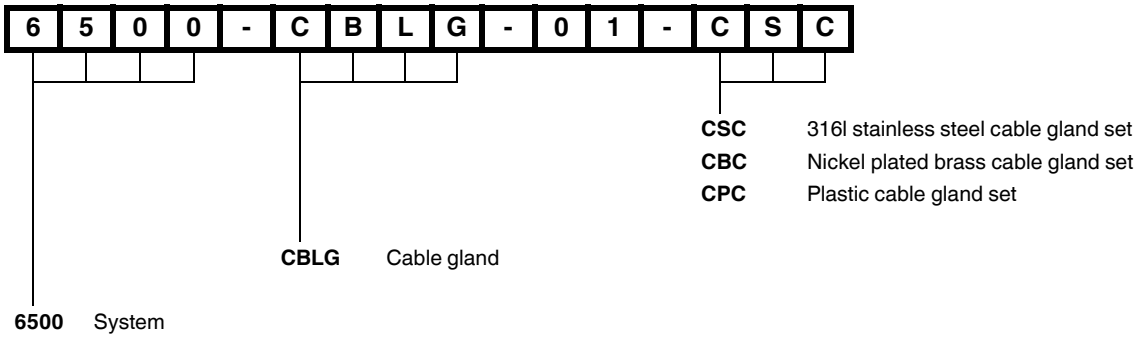
General specifications	
Operating mode	Complete set of approved cable glands for the 6500 control unit
Series	6500
Mechanical specifications	
Cable gland	non-armored cables
Degree of protection	IP68
Material	see table
Mass	see table

Technical Features

Material Information

Model	Housing Material	Cable Gland Material	Cable Diameter	Mass
6500-…-CSC	316L Stainless steel	Neoprene	M12 / 3.0 to 6.0 mm M16 / 4.5 to 8.0 mm	2.0 kg
6500-…-CBC	Nickel Plated Brass	Buna - N/FPM	M12 / 3.0 to 6.0 mm M16 / 4.5 to 8.0 mm	1.8 kg
6500-…-CPC	Plastic	Neoprene	M12 / 3.0 to 6.0 mm M16 / 4.5 to 8.0 mm	1.5 kg

Type Code



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