



aerospace climate control electromechanical filtration fluid & gaz handling hydraulics pneumatics process control sealing & shielding





ATEX Pneumatic Components

Catalogue PDE2584TCUK May 2015





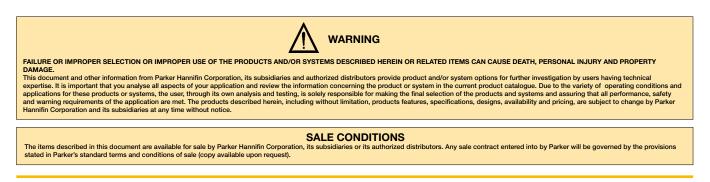
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Atmosphère explosible = Hazardous atmosphere







PRODUCTS	ORDER CODES	LABELS	ZONES	CERTIFICATION N°	PAGE
Air motor	P1V-S *	II 2 GD c IIC T6 (80 °C) X II 2 GD c IIC T5 (95 °C) X	1, 2, 21, 22	IBExU04ATEXB004X	8 to 10
Air motor	P1V-M	II 2 GD c IIC T6 (80 °C) X	1, 2, 21, 22	IBExU14ATEXB017X	11 to 12
Rodless cylinder	OSP-P SLIDELINE BASIC GUIDE	II 2 GD c T4 T135°C -10°C ≤Ta≤+60°C	1, 2, 21, 22		13
Pneumatic cylinder	P1S	II 2 GD c T4 120 °C	1, 2, 21, 22	CEF501005 (Avtal/«cert» nr 399801) (quality Véritas : 98-SKM-AQ-010)	14
Pneumatic cylinder	P1D-S	II 2 GD c T4 120 °C	1, 2, 21, 22	CEF501005 (Avtal/«cert» nr 399801) (quality Véritas : 98-SKM-AQ-010)	15
Pneumatic cylinder	P1D-T	II 2 GD c T4 120 °C	1, 2, 21, 22	CEF501005 (Avtal/«cert» nr 399801) (quality Véritas : 98-SKM-AQ-010)	16 to 17
Pneumatic valve	DX1, DX2, DX3 **	II 2 GD c 85 °C	1, 2, 21, 22	LCIE 04 ATEX 6165X	18 to 19
Pneumatic valve	PVL-C	II 2 GD c 135 °C	1, 2, 21, 22	Acknowledgement of file deposit LCIE 06 AR 018 NM	20 to 21
Viking Xtreme valve	P2L	II 2 GD c 135 °C	1, 2, 21, 22	Acknowledgement of file deposit LCIE 07 AR 069 NM	22 to 25
Sensor	RS-K & ES-K P8S-GPFLX/EX	II 3 G EEx nA II T4 X II 3 D T135 °C IP67	2 22	Not exist (internal product inspection VIII)	17
Solenoid 30 mm	P2FS	II 2 GD Ex mb II T5 or T4 IP66 T100 °C ou T135 °C	1, 2, 21, 22	CESI 05 ATEX 085 X (quality Amisco : TÜV IT13 ATEX030) (quality Parker : LCIE 03 ATEX Q 8037)	19
Solenoid 22 mm	P2FS	II 2 GD Ex e II T4 Ex tD A21 T135 °C IP65	1, 2, 21, 22	LCIE 03 ATEX 6278X (quality Parker : LCIE 03 ATEX Q 8037)	21
Viking Xtreme solenoid	P2FS	II 2G EEx m II T4 II 2D IP65 T130 °C IEC Ex m II T4 IP65 DIP A21 T130 °C	1, 2, 21, 22	PTB 00 ATEX 2001X IECEx PTB 05.0006X	25
Limit switch	PXC-M	II 2 GD c 85 °C	1, 2, 21, 22	Acknowledgement of file deposit LCIE 06 AR 064 NM	26
Control duty	PXV-F1 PXB-B3 PXB-B4	II 2 GD c 85 °C II 2 GD c T6 80° II 2 GD c T6 80°	1, 2, 21, 22 1, 2, 21, 22 1, 2, 21, 22 1, 2, 21, 22	Acknowl. of file deposit LCIE 06 AR 007 NM Acknowl. of file deposit LCIE09ATEX1032X	27 to 30
Logic	PLL-, PLK-, PLN-, PLJ-, PLM-, PRD-, PRF-, PRT-, PSM-, PSV-A1	II 2 GD c 85 °C	1, 2, 21, 22	LCIE 04 ATEX 6164X	31 to 32
Air Preparation	P31 P32 P33 P3Y P3Z	Can be used in a Group II Categoty 2 environment	1.21	Parker self declaration. Not withing the scope of Directive 94/9/EC.	33 to 37
Cylinder control	PWR-H PWR-HB PWS-P111	II 2 GD c 85 °C	1, 2, 21, 22	Acknowledgement of file deposit LCIE 08 AR018NM	38 to 39

* For power P1V-S012, 20, 30, 60, 120
 ** Operators : EV3000200, EV3001200, EV3003200, EV3000100, EV3001100, EV3003100, 1EV0.310, 1EV1.310, 1EV3.310



Introduction to the European ATEX directive Explosive atmospheres

Directive 94/9/EC defines an explosive atmosphere as a mixture of :

- a) flammable substances gases, vapours, mists or dusts
- b) with **air**
- c) under specific atmospheric conditions
- d) in which, after ignition has occurred, combustion spreads to the entire flammable mixture

(NB: with regard to dust, it may be that not all dust is combusted after ignition has occurred)

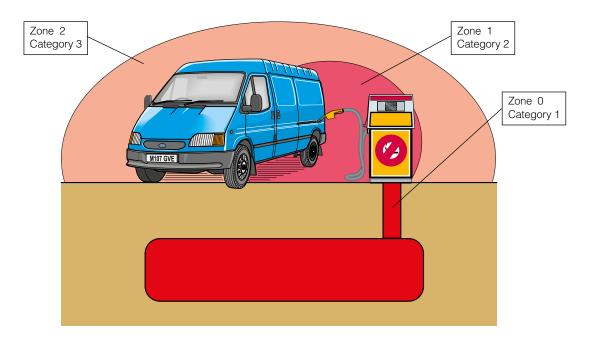
An atmosphere with the potential to become an explosive atmosphere during operating conditions and/or under the influence of the surroundings is defined as a **potentially explosive atmosphere**. Products covered by directive 94/9/EC are defined as intended for use in potentially explosive atmospheres.

Harmonised European ATEX standard

The European Union has adopted two harmonised directives in the field of health and safety. The directives are known as ATEX 100a and ATEX 137.

Directive ATEX 100a (94/9/EC) lays down minimum safety requirements for products intended for use in potentially explosive atmospheres in European Union member states. Directive ATEX 137 (99/92/EC) defines minimum requirements for health and safety at the workplace, for working conditions and for the handling of products and materials in potentially explosive atmospheres. This directive also divides the workplace into **zones** and defines criteria by which products are **categorised** within these zones.

The table below describes the **zones** in an installation where there is a potential for explosive atmospheres. The **owner** of the installation must analyse and assess the area in which the explosive gas/dust mixture may occur, and if necessary must divide it into **zones**. This process of zoning then allows the correct plant and equipment to be selected for use in the area.



Zo Gas G	nes Dust D	Presence of potentially explosive atmosphere	Type of risk
0	20	Present continuously or for long periods.	Permanent.
1	21	Likely to occur in normal operation occasionally.	Potential.
2	22	Not likely to occur in normal operation but, if it does occur, will persist for a short period only.	Minimal.

The ATEX directive has been in force throughout the European Union since 1 July 2003, replacing the existing divergent national and European legislation relating to explosive atmospheres.

Please note that for the first time, the directive covers mechanical, hydraulic and pneumatic equipment and not just electrical equipment as before.

With regard to the **Machinery directive** 98/37/EC, note that a number of external requirements in 94/9/EC refer to hazards arising from potentially explosive atmospheres, where the Machinery directive only contains general requirements relating to explosion safety (Annex I 1.5.7).

As a result, directive 94/9/EC (ATEX 100a) takes precedence over the Machinery directive with regard to explosion protection in potentially explosive atmospheres. The requirements in the Machinery directive are applicable to all other risks relating to machinery.

In most cases full certification is not required, a much more simple "Risk Assessment" as detailed in the Directive, for the products to be supplied will suffice. At the moment we are conducting "Risk Assessments" in accordance with the Directive, on a broad range of core products which will be published on the web site. A more limited range of products will have the full ATEX certification where this is deemed necessary.



Levels of protection for the various equipment categories

The various equipment categories must be capable of operating in accordance with the manufacturer's operating specifications at defined levels of protection.

Level of protection	Cate Group I	Category Type of protection Operating specifications						
Very high	M1		Two independent means of protection or safety, ensuring that the equipment remains functional even in the event of two faults occurring independently of each other.	The equipment remains energised and functional even with an explosive atmosphere present.				
Very high		1	Two independent means of protection or safety, ensuring that the equipment remains functional even in the event of two faults occurring independently of each other.	The equipment remains energised and functional in zones 0, 1, 2 (G) and/or zones 20, 21, 22 (D).				
High	M2		Protection suitable for normal operation and severe operating conditions.	The equipment is de-energised in the event of an explosive atmosphere.				
High		2	Protection suitable for normal operation and frequent faults, or equipment in which faults normally have to be taken into account.	The equipment remains energised and func- tional in zones 1, 2 (G) and/or zones 21, 22 (D).				
Normal		3	Protection suitable for normal operation.	The equipment remains energised and func- tional in zones 2 (G) and/or zones 22 (D).				

Definition of groups (EN 1127-1)

Group I Equipment intended for use in underground parts of mines as well as those parts of surface installations of such mines likely to be endangered by flammable vapours and/or flammable dusts.

Group II Equipment intended for use in other places exposed to explosive atmospheres.

Group	mines, combu	II other potentially explosive atmospheres (gases, dust)						
Category	M1	M2		1	:	2	3	
Atmosphere*			G	D	G	D	G	D
Zone			0	20	1	21	2	22

* G = gas and D = dust

Temperature classes

Classification of flammable gases and vapours on the basis of ignition temperature.

Temperature class	Maxi. allowed temperature on the surface of the material (°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Declaration of conformity

The product catalogues contain copies of the declaration of conformity demonstrating that the product meets the requirements of directive 94/9/EC.

The declaration is only valid in conjunction with the instructions contained in the installation manual relating to the safe use of the product throughout its service life.

The instructions relating to the conditions in the surrounding area are particularly important, as the certificate is invalidated if the instructions are found not to have been adhered to during operation of the product. If there is any doubt as to the validity of the certificate of conformity, contact Parker Hannifin customer service.

Parker components out of scope of the ATEX Directive :

Essential elements with the reliable use of the products and protection systems, but not having an autonomous function nor an own ignition source.

Note :

Sample instruction leaflets are illustrated in the ATEX catalogue PDE2584TC**

in French, English, German, Italian, Spanish and Swedish. For other languages please consult your local Parker Sales Office.

Operation, installation and maintenance

The product installation manual contains instructions relating to the safe storage, handling, operation and servicing of the product. The manual is available in different languages, and can be downloaded from **www.parker.com/euro_pneumatic**. This document must be made accessible in a suitable place near where the product is installed. It is used as a reference for all personnel authorised to work with the product throughout its service life.

We, the manufacturer, reserve the right to modify, extend or improve the installation manual in the interests of the users.

For more information about ATEX see EUs homepage: http://europa.eu.int/comm/enterprise/atex/



ATEX products identification - Label example and significations



Maxi. real temperature of the product surface

State safe design

Gas, dust

Equipment group

explosion risks

Equipment category

See complete chart next page

protection against

(ATEX)

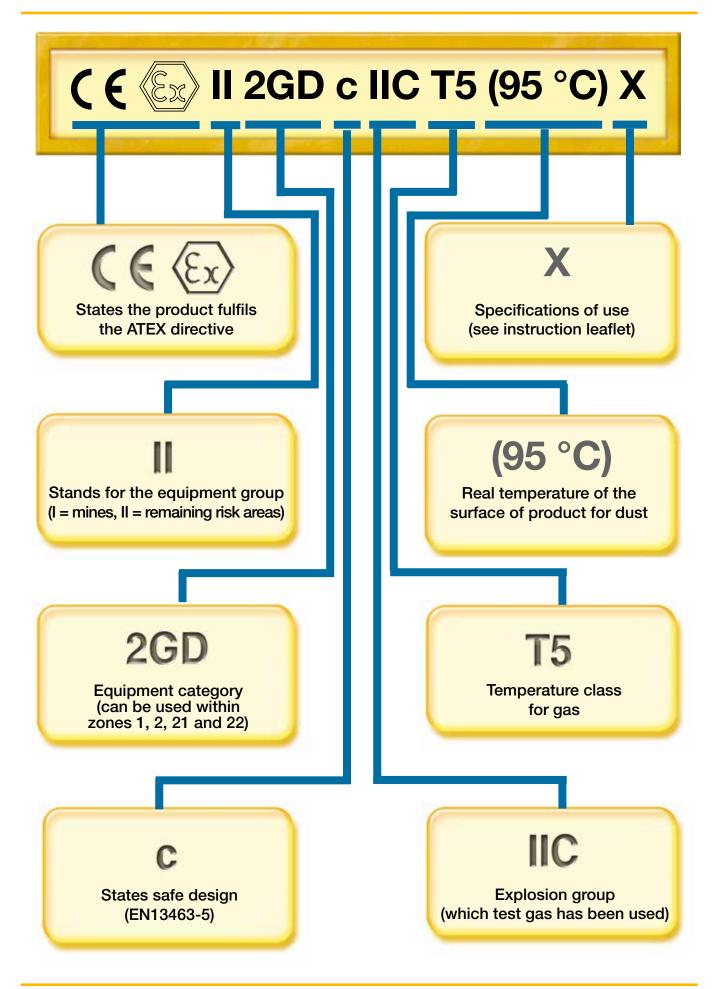


States

Directive

94/9/CE

European symbol





P1V-S is a range of air motors with all external components made of stainless steel, which means that they can be used in food grade applications, and in all other applications where there is a risk of corrosion.

- Power from 0,02 kW to 1,2 kW
- ATEX CE Ex approved from 0,12 kW to 1,2 kW
- Designed for arduous applications

(€ 🔛 II 2GD c IIC T6 (80 °C) X

C E (E) II 2GD c IIC T5 (95 °C) X

No-lube intermittent operation as standard



Operating information

Working presure : Max 6 bar in Ex area Working temperature : -20° to +40°C in Ex area Fluid: Compressed air with ISO 8573-1 Quality class 3.4.3 (no-lube operation) and 3.-.5 (lube operation)

Note : All technical data are based on a working pressure of 6 bar and with oil. For oil-free performances are -10 to 15% lower. Data tolerance accuracy -+10%

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Keyed shaf	(€ 🚱 II2GD cIIC T6 (80°C) X							
Max output kW	Free speed rpm	Speed at max output r/min	Torque at max output Nm	Min start torque Nm	Air consumption at max output I/s	Conn.	Min pipe ID	Order code
0,12	22000	11000	0,10	0,15	5.0	G1/8	6	P1V-S012A0N00
0,12	5500	2750	0,40	0,60	5.0	G1/8	6	P1V-S012A0550
0,12	3600	1800	0,60	0,90	5.0	G1/8	6	P1V-S012A0360
0,12	1400	700	1,60	2,40	5.0	G1/8	6	P1V-S012A0140
0,12	900	450	2,50	3,80	5.0	G1/8	6	P1V-S012A0090
0,12	600	300	3,80	5,00*	5.0	G1/8	6	P1V-S012A0060
0,12	100	50	5,00*	5,00*	5.0	G1/8	6	P1V-S012A0010

Threaded shaft, P1V-S012D series, 120 watt - (G1/8)

P1V-S012D0N00	6	G1/8	5.0	0,15	0,10	11000	22000	0,12
P1V-S012D0550	6	G1/8	5.0	0,60	0,40	2750	5500	0,12
P1V-S012D0360	6	G1/8	5.0	0,90	0,60	1800	3600	0,12
P1V-S012D0140	6	G1/8	5.0	2,40	1,60	700	1400	0,12
P1V-S012D0090	6	G1/8	5.0	3,80	2,50	450	900	0,12
P1V-S012D0060	6	G1/8	5.0	5,00*	3,80	300	600	0,12
P1V-S012D0010	6	G1/8	5.0	5,00*	5,00*	50	100	0,12

Keyed shaft, P1V-S020A series, 200 watt - (G1/8)

P1V-S020A0E50	10	G1/8	6.2	0,40	0,26	7250	14500	0,20
P1V-S020A0460	10	G1/8	6.2	1,20	0,80	2300	4600	0,20
P1V-S020A0240	10	G1/8	6.2	2,40	1,60	1200	2400	0,20
P1V-S020A0140	10	G1/8	6.2	4,10	2,70	700	1400	0,20
P1V-S020A0070	10	G1/8	6.2	8,20	5,40	350	700	0,20
P1V-S020A0032	10	G1/8	6.2	18,00	12,00	160	320	0,20
P1V-S020A0018	10	G1/8	4.5	15,00	10,50	90	180	0,10
P1V-S020A0005	10	G1/8	6.2	20,00*	20,00*	25	50	0,18
P1V-S020A0002	10	G1/8	6.2	20,00*	20,00*	-	20	0,18
P1V-S020A0001	10	G1/8	6.2	20,00*	20,00*	-	10	0,18
P1V-S020A00005	10	G1/8	6.2	20,00*	20,00*	-	5	0,18

8

* Max allowed torque

C € 🔛 II2GD cIIC T6 (80°C) X



P1V-S

Reversible air motors

ax output	Free	Speed at	Torque at	Min start	Air consumption	Conn.	Min pipe	Order code
kW	speed rpm	max output r/min	max output Nm	torque Nm	at max output I/s		ID	
0,20	14500	7250	0,26	0,40	6.2	G1/8	10	P1V-S020D0E
0,20	4600	2300	0,80	1,20	6.2	G1/8	10	P1V-S020D046
0,20	2400	1200	1,60	2,40	6.2	G1/8	10	P1V-S020D024
0,20	1400	700	2,70	4,10	6.2	G1/8	10	P1V-S020D014
0,20	700	350	5,40	8,20	6.2	G1/8	10	P1V-S020D007
0,20	320	160	12,00	18,00	6.2	G1/8	10	P1V-S020D003
0,10	180	90	10,50	15,00	4.5	G1/8	10	P1V-S020D00 ⁻
0,18	50	25	20,00*	20,00*	6.2	G1/8	10	P1V-S020D000
eyed shaf	t, P1V-S0	30A series, 3	300 watt - (G	1/4)				C E II2GD cIIC T6 (80°
0,30	14500	7250	0,40	0,60	7.8	G1/4	10	P1V-S030A0E
0,30	4600	2300	1,20	1,90	7.8	G1/4	10	P1V-S030A04
0,30	2400	1200	2,40	3,60	7.8	G1/4	10	P1V-S030A024
0,30	1400	700	4,10	6,10	7.8	G1/4	10	P1V-S030A014
0,30	600	300	9,60	14,30	7.8	G1/4	10	P1V-S030A00
0,30	340	170	16,90	25,30	7.8	G1/4	10	P1V-S030A00
0,30	230	115	24,00	36,00	7.8	G1/4	10	P1V-S030A00
0,13	180	90	13,80	21,00	4.7	G1/8	10	P1V-S030A00
0,30	100	50	57,00	85,50	7.8	G1/4	10	P1V-S030A00
0,30	50	25	36,00*	36,00*	7.8	G1/4	10	P1V-S030A00
readed s	haft, P1V	-S030D serie	es, 300 watt -	(G1/4)				(€
0,30	14500	7250	0,40	0,60	7.8	G1/4	10	P1V-S030D0E
0,30	4600	2300	1,20	1,90	7.8	G1/4	10	P1V-S030D04
0,30	2400	1200	2,40	3,60	7.8	G1/4	10	P1V-S030D02
0,30	1400	700	4,10	6,10	7.8	G1/4	10	P1V-S030D01
0,30	600	300	9,60	14,30	7.8	G1/4	10	P1V-S030D00
0,30	340	170	16,90	25,30	7.8	G1/4	10	P1V-S030D00
0,13	180	90	13,80	21,00	4.7	G1/8	10	P1V-S030D00
0,30	50	25	36,00*	36,00*	7.8	G1/4	10	P1V-S030D00
yed shaf	t, P1V-S0	60A series, 6	600 watt - (G	3/8)				€ € € 112GD cliC T6 (80°
0,60	14000	7000	0,82	1,23	14.2	G3/8	12	P1V-S060A0E
0,60	3500	1750	3,20	4,80	14.2	G3/8	12	P1V-S060A03
0,60	2700	1350	4,20	6,40	14.2	G3/8	12	P1V-S060A02
0,60	1700	850	6,70	10,10	14.2	G3/8	12	P1V-S060A01
0,60	630	315	18,00	27,00	14.2	G3/8	12	P1V-S060A00
0,60	480	240	23,90	36,00	14.2	G3/8	12	P1V-S060A00
0,60	300	150	38,20	57,00	14.2	G3/8	12	P1V-S060A00
0,30	150	75	38,00	57,00	14.2	G3/8	12	P1V-S060A00
yed shaf	t, P1V-S0	90A series, 9	900 watt - (G	3/8)				C € II2GD cIIC T6 (80°
0,90	12000	6000	1,40	2,10	23.3	G1/2	12	P1V-S090A0C
0,90	3500	1750	4,90	7,30	23.3	G1/2	12	P1V-S090A03
0,90	2700	1350	6,30	9,50	23.3	G1/2	12	P1V-S090A027
0,90	1700	850	10,10	15,20	23.3	G1/2	12	P1V-S090A017
0,90	630	315	27,00	40,00	23.3	G1/2	12	P1V-S090A00
0,90	480	240	35,00	53,00	23.3	G1/2	12	P1V-S090A004
0,90	300	150	57,00	85,00	23.3	G1/2	12	P1V-S090A003
yed shaf	t, P1V-S1	20A series, 1	1200 watt - (0	G3/4)				(€
1,20	9000	4500	2,50	3,80	26,7	G3/4	19	P1V-S120A09
1,20	2500	1250	8,20	13,70	26,7	G3/4	19	P1V-S120A02
1,20	1100	550	21,00	31,00	26,7	G3/4	19	P1V-S120A01
1,20	700	350	33,00	49,00	26,7	G3/4	19	P1V-S120A00
1,20		160	71,00	107,00	26,7	G3/4 G3/4	19	P1V-S120A00
1,20	320							



Max permitted torque to not damage the gearbox

The high torque motors of the P1V-S type are small in size but provide extremely high output. Our high torque motors are also less apt to stall. These drive solutions are Particularly suitable for use in industrial agitators and mixers as used in the paint industry, food industry or pharmaceutical industry.



- Power 0.28, 0.57 and 0.86 kW
- Designed for arduous applications
- No-lube intermittent operation as standard

Operating information

Working pressure Working temperature Fluid

Max 6 bar in Ex area -20° to +40°C in Ex area Compressed air with ISO 8573-1 Quality class 3.4.3 (no-lube operation) and 3.-.5 (lube operation)

Note : All technical data are based on a working pressure of 6 bar and with oil. For oil-free performances are -10 to 15% lower. Data tolerance accuracy -+10%

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

C E (80°C) X

Keyed shaft, P1V-S028A series, 285 watt - (G3/8)

Order code	Weight	Min pipe ID	Conn.	Air con- sumption at max power	Min start torque	Nominal torque	Nominal speed	Free speed*	Max power
	Kg	mm		l/s	Nm	Nm	rpm	rpm	kW
P1V-S028A001	2,700	10	G3/8	7,8	47	32	85	170	0,285
P1V-S028A0008	2,600	10	G3/8	7,8	92	62	40	80	0,285
P1V-S028A000	2,900	10	G3/8	7,8	162	110	25	50	0,285
P1V-S028A000	3,500	10	G3/8	7,8	320	210	13	26	0,280
P1V-S028A000	3,500	10	G3/8	7,8	615	410	7	14	0,280

Keyed shaft, P1V-S057A series, 570 watt - (G1/2)

Max power	Free speed*	Nominal speed	Nominal torque	Min start torque	Air con- sumption at max power	Conn.	Min pipe ID	Weight	Order code
kW	rpm	rpm	Nm	Nm	l/s		mm	Kg	
0,570	150	75	72	108	14,2	G1/2	10	3,600	P1V-S057A0015
0,570	110	55	98	147	14,2	G1/2	10	3,600	P1V-S057A0011
0,570	74	37	150	225	14,2	G1/2	10	3,600	P1V-S057A0007
0,565	40	20	265	400	14,2	G1/2	10	4,400	P1V-S057A0004

Keyed shaft, P1V-S086A series, 860 watt - (G1/2)

Max power	Free speed*	Nominal speed	Nominal torque	Min start torque	Air con- sumption at max power	Conn.	Min pipe ID	Weight	Order code
kW	rpm	rpm	Nm	Nm	l/s		mm	Kg	
0,860	150	75	160	110	23,3	G1/2	10	3,800	P1V-S086A0015
0,860	110	55	220	150	23,3	G1/2	10	3,900	P1V-S086A0011
0,860	70	35	335	225	23,3	G1/2	10	3,900	P1V-S086A0007
0,850	40	20	600	400	23,3	G1/2	10	4,700	P1V-S086A0004

* maximum admissible speed (idling)



10

P1V-M is a series of air motors, with or without gear box. They are made of grey casted iron. Its robustness makes it suitable for all industrial air motor applications.

The range contains five different sizes with power ratings of 200, 400, 600, 900 and 1200 Watts,

The motor and gearbox are built to be extremely strong, making the motors suitable for applications requiring considerable robustness. The gearbox is of the planetary type, permanently lubricated with grease. The flange mounting is cast as an integral part of the case, and give, together with the foot bracket, plenty of opportunity for simple and robust installation.

- Power 0,2 kW, 0,4 kW, 0,6 kW, 0,9 kW & 1.2 kW
- · Patented method for simple change of vanes
- Free speeds from 32 up to 10000 rpm
- Torque from 0,38 Nm up to 120 Nm by max output power
- Standard equipped with flange mounting
- Foot mountings as accesories

(€ (Ex) II 2 GD c IIC T4 (130°C)



Operating information

Working pressure Working temperature Fluid

Max 6 bar in Ex area -20° to +40°C in Ex area Compressed air with ISO 8573-1 Quality class 3.4.3 (no-lube operation) and 3.-.5 (lube operation)

Note : All technical data are based on a working pressure of 6 bar and with oil. For oil-free performances are -10 to 15% lower. Data tolerance accuracy -+10%

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Keyed shaft, P1V-M***B series, without gear boxes

Max power	Free speed*	Nominal speed	Nominal torque	Min start torque	Air consumption at max power	Conn.	Min pipe ID	Weight	Order code
kW	rpm	rpm	Nm	Nm	l/s		mm	Kg	
0,200	10 000	5 000	0,38	0,57	5	G1/8	10	1,00	P1V-M020B0A00
0,400	10 000	5 000	0,76	1,10	10	G3/8	12	1,40	P1V-M040B0A00
0,600	10 000	5 000	1,10	1,70	15	G3/8	13	1,60	P1V-M060B0A00
0,900	10 500	5 250	1,60	2,40	36,7	G1/2	13	3,10	P1V-M090B0A00
1,200	10 500	5 250	2,20	3,30	43,3	G1/2	13	3,80	P1V-M120B0A00

* maximum admissible speed (idling)

Keyed shaft, P1V-M020C series, 200 watt - (G1/8)

Order code	Weight	Min pipe ID	Conn.	Air consumption at max power	Min start torque	Nominal torque	Nominal speed	Free speed*	Max power
	Kg	mm		l/s	Nm	Nm	rpm	rpm	kW
P1V-M020C0230	2,40	10	G1/8	5	2,40	1,60	1 150	2 300	0,200
P1V-M020C0146	2,40	10	G1/8	5	3,90	2,60	730	1 460	0,200
P1V-M020C0054	2,80	10	G1/8	5	10,50	7,00	270	540	0,200
P1V-M020C0034	2,80	10	G1/8	5	16,80	11,20	170	340	0,200
P1V-M020C0021	2,80	10	G1/8	5	27,30	18,20	105	210	0,200
P1V-M020C0012	3,20	10	G1/8	5	47,70	31,80	60	120	0,200
P1V-M020C0008	3,20	10	G1/8	5	71,70	47,80	40	80	0,200
P1V-M020C0003	3,20	10	G1/8	5	80**	80**	16	32	0,200

* maximum admissible speed (idling) / ** gear box restriction



Keyed shaft, P1V-M040C series, 400 watt - (G3/8)

Order code	Weight	Min pipe ID	Conn.	Air consumption at max power	Min start torque	Nominal torque	Nominal speed	Free speed*	Max power
	Kg	mm		l/s	Nm	Nm	rpm	rpm	kW
P1V-M040C0230	2,80	12	G3/8	10	4,80	3,20	1 150	2 300	0,400
P1V-M040C0146	2,80	12	G3/8	10	7,80	5,20	730	1 460	0,400
P1V-M040C0054	3,20	12	G3/8	10	21,00	14,00	270	540	0,400
P1V-M040C0034	3,20	12	G3/8	10	33,60	22,40	170	340	0,400
P1V-M040C0021	3,20	12	G3/8	10	54,60	36,40	105	210	0,400
P1V-M040C001	3,60	12	G3/8	10	80**	63,60	60	120	0,400
P1V-M040C000	3,60	12	G3/8	10	80**	80**	40	80	0,400

 * maximum admissible speed (idling) / ** gear box restriction

Keyed shaft, P1V-M060C series, 600 watt - (G3/8)

Max power	Free speed*	Nominal speed	Nominal torque	Min start torque	Air consumption at max power	Conn.	Min pipe ID	Weight	Order code
kW	rpm	rpm rpm	Nm	Nm	l/s		mm	Kg	
0,600	2 300	1 150	5,00	7,50	15	G3/8	13	3,00	P1V-M060C0230
0,600	1 460	730	7,80	11,70	15	G3/8	13	3,00	P1V-M060C0146
0,600	540	270	21,00	31,50	15	G3/8	13	3,40	P1V-M060C0054
0,600	340	170	33,60	50,40	15	G3/8	13	3,40	P1V-M060C0034
0,600	210	105	54,50	80**	15	G3/8	13	3,40	P1V-M060C0021
0,600	120	60	80**	80**	15	G3/8	13	3,80	P1V-M060C0012

* maximum admissible speed (idling) / ** gear box restriction

Keyed shaft, P1V-M090C series, 900 watt - (G1/2)

Weight	Min pipe	Conn.						
	ID	Conn.	Air consumption at max power	Min start torque	Nominal torque	Nominal speed	Free speed*	Max power
Kg	mm		l/s	Nm	Nm	rpm	rpm	kW
4,90	13	G1/2	36,7	10,50	7,00	1 225	2 450	0,900
4,90	13	G1/2	36,7	16,50	11,00	780	1 560	0,900
5,60	13	G1/2	36,7	45,00	30,00	290	580	0,900
5,60	13	G1/2	36,7	71,00	47,00	180	360	0,900
5,60	13	G1/2	36,7	112,00	75,00	115	230	0,900
6,30	13	G1/2	36,7	120**	120**	67	134	0,900
6,30	13	G1/2	36,7	120**	120**	45	90	0,900
6,30	13	G1/2	36,7	120**	120**	20	40	0,900
	4,90 4,90 5,60 5,60 5,60 6,30 6,30	13 4,90 13 4,90 13 5,60 13 5,60 13 5,60 13 5,60 13 6,30 13 6,30	G1/2 13 4,90 G1/2 13 4,90 G1/2 13 5,60 G1/2 13 6,30 G1/2 13 6,30	I/s mm Kg 36,7 G1/2 13 4,90 36,7 G1/2 13 4,90 36,7 G1/2 13 5,60 36,7 G1/2 13 5,60 36,7 G1/2 13 5,60 36,7 G1/2 13 5,60 36,7 G1/2 13 6,30 36,7 G1/2 13 6,30 36,7 G1/2 13 6,30	NmI/smmKg10,5036,7G1/2134,9016,5036,7G1/2134,9045,0036,7G1/2135,6071,0036,7G1/2135,60112,0036,7G1/2135,60120**36,7G1/2136,30120**36,7G1/2136,30	NmNmI/smmKg7,0010,5036,7G1/2134,9011,0016,5036,7G1/2134,9030,0045,0036,7G1/2135,6047,0071,0036,7G1/2135,6075,00112,0036,7G1/2135,60120**120**36,7G1/2136,30120**120**36,7G1/2136,30	rpmNmNmI/smmKg1 2257,0010,5036,7G1/2134,9078011,0016,5036,7G1/2134,9029030,0045,0036,7G1/2135,6018047,0071,0036,7G1/2135,6011575,00112,0036,7G1/2135,6067120**120**36,7G1/2136,3045120**120**36,7G1/2136,30	rpmrpmNmNmI/smmKg2 4501 2257,0010,5036,7G1/2134,901 56078011,0016,5036,7G1/2134,9058029030,0045,0036,7G1/2135,6036018047,0071,0036,7G1/2135,6023011575,00112,0036,7G1/2135,6013467120**120**36,7G1/2136,309045120**120**36,7G1/2136,30

* maximum admissible speed (idling) / ** gear box restriction

Keyed shaft, P1V-M120C series, 1200 watt - (G1/2)

Order code	Weight	Min pipe ID	Conn.	Air consumption at	Min start	Nominal torque	Nominal speed	Free speed*	Max power
	Kg	mm		max power I/s	torque Nm	Nm	rpm	rpm	kW
P1V-M120C0245	5,60	13	G1/2	43,3	14,00	9,40	1 225	2 450	1,20
P1V-M120C0156	5,60	13	G1/2	43,3	22,00	14,70	780	1 560	1,20
P1V-M120C0058	6,30	13	G1/2	43,3	60,00	40,00	290	580	1,20
P1V-M120C0036	6,30	13	G1/2	43,3	94,00	63,00	180	360	1,20
P1V-M120C0023	6,30	13	G1/2	43,3	120**	100,00	115	230	1,20

 * maximum admissible speed (idling) / ** gear box restriction



Components for EX-Areas

Information for ATEX-Directives

The rodless pneumatic cylinders of Parker Origa are the first linear drive unit, for that Ex range in the group of equipment II, Category 2 GD are certified.

Detail informations for use pneumatic components in Ex-Areas see leaflet PDE2584TCUK "EU Directive 94/9/EG (ATEX 95) for Pneumatic Components".

Basic Guide Ø 25-50 mm

Basic Guide - Series: BG ... ATEX



(x_3)



Rodless Cylinder Ø 10-80 mm

Basic Cylinder - Series: OSP-P ... ATEX



Plain Bearing Guide Ø 16-80 mm SLIDELINE - Series: SL ... ATEX



Technical Data (deviant to the Standard Cylinder)

Characteristics	Description
General Features	
Ambient T _{min}	-10 °C
temperature range T _{max}	+60 °C
Max. switching frequency	1 Hz (double stroke/s) Basic cylinder 0.5 Hz (1stroke/s) Cylinder with guide
Operating pressure range p _{max}	Max. 8 bar
Max. speed v _{max}	3 m/s (Basic cylinder) 2 m/s (Cylinder with guide SLIDELINE and cylinder with guide BASIC GUIDE)
Medium	Filtered, unlubricated compressed air – free from water and dirt to ISO 8573-1 Solids: Class 7 particle size < 40 µm for Gas Water content: pressure dew point +3 °C, class 4, but at least 5 °C below minimum operating temperature
Noise level	70 dB (A)
Information for materials	
Aluminium	See data sheet "Material"
Lubrication	See security data sheet "Grease for use in Cylinder with guides"
Sealing bands	Corrosion resistant steel

Equipment Group II Categorie 2GD

Rodless cylinder: 🐼 II 2GD c T4 T135°C -10°C≤Ta≤+60°C

Series	Size	Stroke range	Accessories
OSP-P	Ø 10 to 80	1– 6000 mm	Mountings programme
BASIC GUIDE	Ø 25 to 50	1– 6000 mm	Mountings programme
SLIDELINE	Ø 16 to 80	1– 5500 mm	Mountings programme



ATEX ISO 6431 Stainless Steel Cylinders, bores 32-125mm

This range of stainless steel cylinders has been specially designed for use in difficult environments. Hygienic design, external seals of flourianted rubber and prelubrication with our food-industry-approved grease according to USDA-H1 make the cylinders particularly suitable for food industry use. All cylinders have magnetic pistons for proximity position sensing. Fixing dimensions to ISO 6431 simplify installation and make the cylinders physically interchangeable throughout the world.

- Round cylinder to ISO 6431
- All stainless steel
- Clean, smooth washdown design
- Magnetic piston as standard
- Adjustable cushioning for long service life
- · Complete range of mountings and sensors

(((x) II 2GD c T4 120 °C

Ø63mm - (G3/8)

Stroke mm Order code

25	P1S-D063MS-0025-EXNN
50	P1S-D063MS-0050-EXNN
80	P1S-D063MS-0080-EXNN
100	P1S-D063MS-0100-EXNN
125	P1S-D063MS-0125-EXNN
160	P1S-D063MS-0160-EXNN
200	P1S-D063MS-0200-EXNN
250	P1S-D063MS-0250-EXNN
320	P1S-D063MS-0320-EXNN
400	P1S-D063MS-0400-EXNN
500	P1S-D063MS-0500-EXNN

Ø80mm - (G3/8)

Stroke mm	Order code
25	P1S-L080MS-0025-EXNN
50	P1S-L080MS-0050-EXNN
80	P1S-L080MS-0080-EXNN
100	P1S-L080MS-0100-EXNN
125	P1S-L080MS-0125-EXNN
160	P1S-L080MS-0160-EXNN
200	P1S-L080MS-0200-EXNN
250	P1S-L080MS-0250-EXNN
320	P1S-L080MS-0320-EXNN
400	P1S-L080MS-0400-EXNN
500	P1S-L080MS-0500-EXNN

Ø100mm - (G1/2) Stroke mm Order code

Stroke mm	Order code
25	P1S-L100MS-0025-EXNN
50	P1S-L100MS-0050-EXNN
80	P1S-L100MS-0080-EXNN
100	P1S-L100MS-0100-EXNN
125	P1S-L100MS-0125-EXNN
160	P1S-L100MS-0160-EXNN
200	P1S-L100MS-0200-EXNN
250	P1S-L100MS-0250-EXNN
320	P1S-L100MS-0320-EXNN
400	P1S-L100MS-0400-EXNN
500	P1S-L100MS-0500-EXNN

Ø125mm - (G1/2)

Stroke mm	Order code
25	P1S-L125MS-0025-EXNN
50	P1S-L125MS-0050-EXNN
80	P1S-L125MS-0080-EXNN
100	P1S-L125MS-0100-EXNN
125	P1S-L125MS-0125-EXNN
160	P1S-L125MS-0160-EXNN
200	P1S-L125MS-0200-EXNN
250	P1S-L125MS-0250-EXNN
320	P1S-L125MS-0320-EXNN
400	P1S-L125MS-0400-EXNN
500	P1S-L125MS-0500-EXNN

Ø50mm - (G1/4)		
Stroke mm	Order code	
25	P1S-D050MS-0025-EXNN	
50	P1S-D050MS-0050-EXNN	
80	P1S-D050MS-0080-EXNN	

50 P1S-D050MS-0050-EXNN 80 P1S-D050MS-0080-EXNN 100 P1S-D050MS-0100-EXNN 125 P1S-D050MS-0125-EXNN
100 P1S-D050MS-0100-EXNN
125 P1S-D050MS-0125-FXNN
160 P1S-D050MS-0160-EXNN
200 P1S-D050MS-0200-EXNN
250 P1S-D050MS-0250-EXNN
320 P1S-D050MS-0320-EXNN
400 P1S-D050MS-0400-EXNN
500 P1S-D050MS-0500-EXNN





Operating information

Working pressure:	Max 10 bar
Temperature range:	-20°C to +70°C
ATEX approval :	CE Ex II 2GD c T4 120 °C

Prelubricated, further lubrication is not normally necessary. If additional lubrication is introduced it must be continued.

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Ø32mm - (G1/8)

	· · ·
Stroke mm	Order code
25	P1S-D032MS-0025-EXNN
50	P1S-D032MS-0050-EXNN
80	P1S-D032MS-0080-EXNN
100	P1S-D032MS-0100-EXNN
125	P1S-D032MS-0125-EXNN
160	P1S-D032MS-0160-EXNN
200	P1S-D032MS-0200-EXNN
250	P1S-D032MS-0250-EXNN
320	P1S-D032MS-0320-EXNN
400	P1S-D032MS-0400-EXNN
500	P1S-D032MS-0500-EXNN

Ø40mm - (G1/4)

Stroke mm	Order code
25	P1S-D040MS-0025-EXNN
50	P1S-D040MS-0050-EXNN
80	P1S-D040MS-0080-EXNN
100	P1S-D040MS-0100-EXNN
125	P1S-D040MS-0125-EXNN
160	P1S-D040MS-0160-EXNN
200	P1S-D040MS-0200-EXNN
250	P1S-D040MS-0250-EXNN
320	P1S-D040MS-0320-EXNN
400	P1S-D040MS-0400-EXNN
500	P1S-D040MS-0500-EXNN

The innovative P1D is a future-proof generation of ISO/VDMA cylinders. The cylinders are double-acting, with a new design of air cushioning.

The P1D complies with the current ISO 6431, ISO 15552, VDMA 24562 and AFNOR installation dimension standards.

- Available in 32 to 125 mm bores
- PUR seals for long service life
- Drop-in sensors
- Corrosion resistant design
- Magnetic piston as standard
- Lubricated with food grade grease

(€ 🖾 II 2GD c T4 120 °C

Ø32mm - (G1/8)

Order code
P1D-S032MS-0025
P1D-S032MS-0040
P1D-S032MS-0050
P1D-S032MS-0080
P1D-S032MS-0100
P1D-S032MS-0125
P1D-S032MS-0160
P1D-S032MS-0200
P1D-S032MS-0250
P1D-S032MS-0320
P1D-S032MS-0400
P1D-S032MS-0500

Ø40mm - (G1/4)

Stroke mm	Order code
25	P1D-S040MS-0025
40	P1D-S040MS-0040
50	P1D-S040MS-0050
80	P1D-S040MS-0080
100	P1D-S040MS-0100
125	P1D-S040MS-0125
160	P1D-S040MS-0160
200	P1D-S040MS-0200
250	P1D-S040MS-0250
320	P1D-S040MS-0320
400	P1D-S040MS-0400
500	P1D-S040MS-0500

Ø50mm - (G1/4)

	,
Stroke mm	Order code
25	P1D-S050MS-0025
40	P1D-S050MS-0040
50	P1D-S050MS-0050
80	P1D-S050MS-0080
100	P1D-S050MS-0100
125	P1D-S050MS-0125
160	P1D-S050MS-0160
200	P1D-S050MS-0200
250	P1D-S050MS-0250
320	P1D-S050MS-0320
400	P1D-S050MS-0400
500	P1D-S050MS-0500

Ø63mm - (G³/₈)

Stroke mm	Order code
25	P1D-S063MS-0025
40	P1D-S063MS-0040
50	P1D-S063MS-0050
80	P1D-S063MS-0080
100	P1D-S063MS-0100
125	P1D-S063MS-0125
160	P1D-S063MS-0160
200	P1D-S063MS-0200
250	P1D-S063MS-0250
320	P1D-S063MS-0320
400	P1D-S063MS-0400
500	P1D-S063MS-0500

Ø80mm - (G³/₈)

(
Stroke mm	Order code
25	P1D-S080MS-0025
40	P1D-S080MS-0040
50	P1D-S080MS-0050
80	P1D-S080MS-0080
100	P1D-S080MS-0100
125	P1D-S080MS-0125
160	P1D-S080MS-0160
200	P1D-S080MS-0200
250	P1D-S080MS-0250
320	P1D-S080MS-0320
400	P1D-S080MS-0400
500	P1D-S080MS-0500

Operating information

Working pressure : Seals / Temperature options Standard :

ATEX approval :

-20°C to +80°C

Max 10 bar

CE Ex II 2GD c T4 120 °C

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Ø100mm - (G1/2)

Stroke mm	Order code
25	P1D-S100MS-0025
40	P1D-S100MS-0040
50	P1D-S100MS-0050
80	P1D-S100MS-0080
100	P1D-S100MS-0100
125	P1D-S100MS-0125
160	P1D-S100MS-0160
200	P1D-S100MS-0200
250	P1D-S100MS-0250
320	P1D-S100MS-0320
400	P1D-S100MS-0400
500	P1D-S100MS-0500

Ø125mm - (G ¹ / ₂)	
Stroke mm	Order code
25	P1D-S125MS-0025
40	P1D-S125MS-0040
50	P1D-S125MS-0050
80	P1D-S125MS-0080
100	P1D-S125MS-0100
125	P1D-S125MS-0125
160	P1D-S125MS-0160
200	P1D-S125MS-0200
250	P1D-S125MS-0250
320	P1D-S125MS-0320
400	P1D-S125MS-0400
500	P1D-S125MS-0500

The cylinders are supplied complete with a zinc plated steel piston rod nut.

P1D-T Large Bore Cylinders

The P1D-T range of tie rod cylinders is intended for use in a wide range of applications. Careful design and high quality manufacture throughout ensure long service life and optimum economy. Mounting dimensions fully in accordance with ISO 15552 (ISO 6431 and CETOP RP52P) greatly simplifies installation and world-wide interchangeability.

- Bore sizes Ø160 Ø320mm
- Stroke lengths 10mm 2000mm
- Magnetic piston as standard
- Adjustable cushioning as standard
- High temperature version
- Special version on request

(€ II 2GD c T4 120 °C

Ø200mm

Stroke mm

50

80

100

125

160

200

250 320

400

500

800

1000

Ø160mm	
Stroke mm	Order code
50	P1D-T160MS-0050-EXNN
80	P1D-T160MS-0080-EXNN
100	P1D-T160MS-0100-EXNN
125	P1D-T160MS-0125-EXNN
160	P1D-T160MS-0160-EXNN
200	P1D-T160MS-0200-EXNN
250	P1D-T160MS-0250-EXNN
320	P1D-T160MS-0320-EXNN
400	P1D-T160MS-0400-EXNN
500	P1D-T160MS-0500-EXNN
800	P1D-T160MS-0800-EXNN
1000	P1D-T160MS-1000-EXNN

Ø320mm

Stroke mm	Order code
50	P1D-T320MS-0050-EXNN
80	P1D-T320MS-0080-EXNN
100	P1D-T320MS-0100-EXNN
125	P1D-T320MS-0125-EXNN
160	P1D-T320MS-0160-EXNN
200	P1D-T320MS-0200-EXNN
250	P1D-T320MS-0250-EXNN
320	P1D-T320MS-0320-EXNN
400	P1D-T320MS-0400-EXNN
500	P1D-T320MS-0500-EXNN
800	P1D-T320MS-0800-EXNN
1000	P1D-T320MS-1000-EXNN

CE EX

Operating information

Working pressure: Seals / Temperature options Standard: High temperature: ATEX approval:

Order code

P1D-T200MS-0050-EXNN

P1D-T200MS-0080-EXNN

P1D-T200MS-0100-EXNN

P1D-T200MS-0125-EXNN P1D-T200MS-0160-EXNN

P1D-T200MS-0200-EXNN

P1D-T200MS-0250-EXNN

P1D-T200MS-0320-EXNN

P1D-T200MS-0400-EXNN

P1D-T200MS-0500-EXNN

P1D-T200MS-0800-EXNN P1D-T200MS-1000-EXNN -20°C to +80°C -10°C to +140°C CE Ex IIGD c T4 120°C

Max 10 bar

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Ø250mm

Stroke mm	Order code
50	P1D-T250MS-0050-EXNN
80	P1D-T250MS-0080-EXNN
100	P1D-T250MS-0100-EXNN
125	P1D-T250MS-0125-EXNN
160	P1D-T250MS-0160-EXNN
200	P1D-T250MS-0200-EXNN
250	P1D-T250MS-0250-EXNN
320	P1D-T250MS-0320-EXNN
400	P1D-T250MS-0400-EXNN
500	P1D-T250MS-0500-EXNN
800	P1D-T250MS-0800-EXNN
1000	P1D-T250MS-1000-EXNN

The cylinders are supplied complete with a zinc plated steel piston rod nut.



Drop-in sensors

The completely new "drop-in" P1D sensors can easily be installed from the side in the sensor groove, at any position along the piston stroke. The sensors are completely recessed and thus mechanically protected. Choose between electronic or reed sensors and several cable lengths and 8 mm and M12 connectors.

The same standard sensors are used for all P1D versions, i.e. even for P1D Clean with the patent applied system of integrated sensors. Please note that the sensors with 8 mm and M12 $\,$

connector should have cable lengths 1 m for P1D Clean to allow flexible positioning of the sensors, including longer stroke lengths. There is a double jointed adapter for the tie-rod version, which offers simple and flexible use of standard sensors.

Electronic sensors

The new electronic sensors are "Solid State", i.e. they have no moving parts at all. They are provided with short-circuit protection and transient protection as standard. The built-in electronics make the sensors suitable for applications with high on and off switching frequency, and where very long service life is required.



C E II 3 G EEx nA II T4 X II 3 D T135 °C IP67

Ordering data

Output/function	Cable/connector		Weight kg	Order code
Electronic sensor , 18-30 V DC				
ATEX Certified	CE Ex II3G EEx nA II T4X II3D T135°C IP67			
PNP type, normally open	3 m PVC-cable without connector	C € 〈٤x〉	0,030	P8S-GPFLX/EX



ATEX ISOMAX ISO 5599/1 valves

Ceramic slide valves for maximum operational life. Solenoid or air pilot operated with a wide choice of bases and manifolds. Vacuum to 10 bar applications.

- Size1, 2 and 3
- Ceramic technology for long life operation
- From vacuum up to 10 bar applications
- Internal or external pilot supply with same valves
- Pressure supply possible on exhaust ports

(€ 🖾 II 2GD c 85 °C



Operation information

Working pressure : Working temperature : **DX1** Flow (Qmax.) : 1680 l/min Flow (Qn.) : 1150 l/min ATEX approval : CE

-0,9 to 10 bar -10 to +60°C **DX2 DX3** 3640 l/min 6420 l/min 2330 l/min 4050 l/min

CE Ex II 2GD c 85 °C

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Electrically actuated 5/2 and 5/3 valves for CNOMO 06-05-10 solenoid supplied without solenoid, refer to page 19 to select solenoid

Symbol	Description	Size	Actuator	Return	P min bar	Flow (Qn) I/min	Order Code No Solenoid
	5/2 Single Solenoid	1 2 3	Solenoid	Spring	2.5 2,0 2,0	1000 2280 3950	DX1-621-EX DX2-621-EX DX3-621-EX
	5/2 Single Solenoid differential	1 2 3	Solenoid	Internal air	2,0 2,0 2,0	1030 2280 3840	DX1-651-EX DX2-651-EX DX3-651-EX
	5/2 Double Solenoid	1 2 3	Solenoid	Solenoid	1,0 1,0 1,0	1150 2330 4050	DX1-606-EX DX2-606-EX DX3-606-EX
	5/2 Double Solenoid 14 prioritised	1 2 3	Solenoid	Solenoid	1,0 1,0 1,0	1150 2330 4050	DX1-656-EX DX2-656-EX DX3-656-EX
	5/3 Double Sol. APB	1 2 3	Solenoid	Solenoid	3,0 2,5 2,5	820 2100 3550	DX1-616-EX DX2-616-EX DX3-616-EX
	5/3 Double Solenoid CE	1 2 3	Solenoid	Solenoid	3,0 2,5 2,5	1030 1950 3470	DX1-611-EX DX2-611-EX DX3-611-EX
	5/3 pressurised centre	1 2	Solenoid	Solenoid	2,5 2,5	1100 1970	DX1-613-EX DX2-613-EX

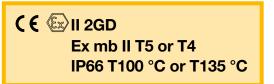
APB = All Ports Blocked CE = Center Open to Exhaust



Symbol	Description	Size	Actuator	Return	P min bar	Flow (Qn) I/min	Order Code
	5/2 Single Pilot	1	Air pilot	Spring	2.5	1000	DX1-421-EX
	-	2 3			2,0	2280	DX2-421-EX
5 0 0 3 1		3			2,0	3950	DX3-421-EX
4 <u>4</u> 12	5/2 Single Pilot	1	Air pilot	Internal	2,0	1030	DX1-451-EX
differential	differential	2		air	2,0	2280	DX2-451-EX
5443		3			2,0	3840	DX3-451-EX
4 4 2 12	5/2 Double Pilot	1	Air pilot	Air pilot	1,0	1150	DX1-406-EX
	2 3			1,0	2330	DX2-406-EX	
5 √ 43		3	Air pilot	Air pilot	1,0	4050	DX3-406-EX
4 4 2 12	5/2 Double Pilot	1	Air pilot	Air pilot	1,0	1150	DX1-456-EX
	14 prioritised	2			1,0	2330	DX2-456-EX
5 \$ \$ 3	•	2 3			1,0	4050	DX3-456-EX
14 4, 12 12 5/3 Doub	5/3 Double Pilot APB	1	Air pilot	Air pilot	3,0	820	DX1-416-EX
		2			2,5	2100	DX2-416-EX
2 <u>+++1+++</u> 19 5∀∆∀3 1		3	Air pilot	Air pilot	2,5	3550	DX3-416-EX
4 2 12	5/3 Double Pilot CE	4	Air pilot	Air pilot	2.0	1030	DX1-411-EX
∦∖tit tit7k	5/5 DOUDIE PIIOL CE	1 2	Air pilot	Air pilot	3,0	1950	DX1-411-EX DX2-411-EX
5+ <u>∠</u> +3		2	Airpilat	Airpilat	2,5		
		3	Air pilot	Air pilot	2,5	3470	DX3-411-EX
	5/3	1	Air pilot	Air pilot	2,5	1100	DX1-413-EX
<u>≣_\ _\</u> _ 5↓ <u>↓</u> 3	pressurised centre	2		•	2,5	1970	DX2-413-EX

Pneumatically actuated 5/2 and 5/3 valves

APB = All Ports Blocked CE = Center Open to Exhaust



Complete solenoid coils and CNOMO operator

Voltage	Temperature class ° C	Order code Manual override	Order code Manual override
	°C	non locking	locking

EV310-2.5 W DC, 4.5 VA AC solenoids with CNOMO 06-05-10 interface and cable plug DIN 43650 form A (supplied with 3 m flying lead)

	- 2	24 V DC	Τ4	P2FSB3A3L549	-
	۹۲.۲	24 V DC	T5	P2FSB3A3LT49	P2FSB3A3C549
all see		24 V AC	T5	P2FSB3A3LT42	P2FSB3A3CT42
		48 V AC	T5	P2FSB3A3LT69	P2FSB3A3CT69
		230 V AC	T5	P2FSB3A3LT57	P2FSB3A3CT57



ATEX compact valves

Stacking high flow valves with air pilot or solenoid actuation. Lightweight plastic bodies feature push-in or threaded connections. Stacking valves feature modular inlet and exhaust facility.



- High flow, compact size
- · Push-in or threaded connection
- DIN rail or block mounting
- Light weight construction

Operating information

Working pressure Pneumatically operated : 2-10 bar Electrically operated, bistable : 2-10 bar
Electrically operated histable 2-10 har
Electrically operated, monostable : 3-10 bar
Working temperature : -15 °C to +60 °C
PVL-C
Flow (Qmax) : 1800 l/min
Flow Qn : 1100 l/min
Flow measured with valve stacked in island.
ATEX approval : II 2GD c 135 °C
For details, see technical catalogue on web site :
www.parker.com/euro_pneumatic

(€ 🕼 II 2GD c 135 °C

PVL-C directional control valves - Stand-alone version

Symbol	Connec- tion Push-in Threade	/	Return	Signal pres. min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Order code
i ze G1/4 - Pneum or use with air-pilot	-	ed 5/2 valves				
4 2	Ø8 mm	Air	Air	0,9/0,9	17/17	PVL-C112608-EX *
	G1/4	Air	Air	0,9/0,9	17/17	PVL-C112619-EX
	Ø8 mm	Air	Spring	2,8/1,0	25/60	PVL-C111608-EX *
	G1/4	Air	Spring	2,8/1,0	25/60	PVL-C111619-EX
	<u>G3/8</u>	Air	Spring	2,8/1,0	25/60	PVL-C111613-EX
Size G1/4 -Pneuma For use with air-pilot	•	d 5/3 valves				
	<u>G1/4</u>	APB	Air-Self centering	-	-	PVL-C117619-EX
	-	ically actuated 5/2				
	G1/4	Electric or air	Electric or air	0,9/0,9	15/15	PVL-C112419-EX
		Electric or air	Spring	2,8/1,0	20/50	PVL-C111419-EX

Threaded G1/4 version **PVL-C117419-EX**

APB = All Ports Blocked

The above valve operation can be either :

- Pneumatic, with the addition of one or two pilot connectors complete with Ø4 mm Push-in connections : PVA-P111, PVA-P121, or PVA-P125.

- Electrical, with the addition of one or two solenoid actuators, only 6 W / 8,5 VA, P2FS ATEX certified type, (see page 19).

Mounting

The valves have integral mounting holes suitable for M4 screws and can be directly mounted onto any suitable surface. The pipework connections will be either use of threaded fittings or direct Push-in depending on the body selected.



PVL-C directional control valves - Stackable version

Symbol	Connec- tion Push-in/ Threade		Return	Signal pres. min, bar at 6 bar actua./return	Changeover time, ms at 6 bar actua./return	Order code
e G1/4 - Pneum r use with air-pilot	•	d 5/2 valves				
	Ø8 mm	Air	Air	0,9/0,9	17/17	PVL-C122608-EX
4 ² /www	G1/4	Air	Air	0,9/0,9	17/17	PVL-C122619-EX *
14 513 12	Ø8 mm	Air	Spring	2,8/1,0	25/60	PVL-C121608-EX *
	G1/4	Air	Spring	2,8/1,0	25/60	PVL-C121619-EX *
ize G1/4 - Pneum or use with air-pilot	-	d 5/3 valves				
	G1/4	APB	Self centering	-	-	PVL-C127619-EX
	G1/4	CE	Self centering	_	_	PVL-C128619-EX

Size G1/4 - Electrically / Pneumatically actuated 5/2 valves

For use with 6 W / 8,5 VA solenoid actuator or air-pilot connector

	Ø8 mm	Electric or air	Electric or air	0,9/0,9	15/15	PVL-C122408-EX
	G1/4	Electric or air	Electric or air	0,9/0,9	15/15	PVL-C122419-EX
[Ζ][τ] 1 4 513 12	Ø8 mm	Electric or air	Spring	2,8/1,0	20/50	PVL-C121408-EX
	G1/4	Electric or air	Spring	2,8/1,0	20/50	PVL-C121419-EX

*: NPT version PVL-C1126197-EX, PVL-C1216097-EX, PVL-C1216197-EX

APB = All Ports Blocked, CE = Centre Open to Exhaust

Each valve is supplied with two tie rods for use in the "stacking" system.

The above valve operation can be either :

- Pneumatic, with the addition of one or two pilot connectors complete with Ø4 mm Push-in connections : PVA-P111, PVA-P121, or PVA-P125.

- Electrical, with the addition of one or two solenoid actuators, only 6 W / 8,5 VA, P2FS ATEX certified type, (see below).

- Standard head and tail sets (not submitted for ATEX approval) are associable with the stackable version :

Omega rail mounting	or	Surface mounting
Single air supply : PVL-C1713		Single air supply : PVL-C1819
Dual air supply : PVL-C1723		Dual air supply : PVL-C1829

Solenoids 6 W / 8,5 VA Without manual override

With prewired cable connector (22x30 mm)

Ţ	/	ู่พพ
	2	1

Voltage	Cable length m	Order code
24 V DC	3	P2FS53A3AM49
24 V DC	5	P2FS53A3AM4905
24 V DC	10	P2FS53A3AM4910
24 V DC	5	P2FS53A3AM495R



Versions available for use in explosive atmospheres :

- conforming to certification LCIE 03 ATEX 6278X

- electrical equipment conforming to harmonised European standards EN60079-0 (2009)

EN60079-18 (2009)

EN60079-31 (2009)

- marking code CE 🙆 II 2 GD

Ex mb IIC T4 Ex mb tb IIICT130°C IP65



ATEX metal spool valves

Rugged metal bodied valve series with high flow and fast switching. Available with manual or automatic actuation and with a wide operating temperature range. The ideal valve for mobile applications.

- 3 sizes: G1/8, G1/4 and G1/2.
- High flow and fast switching.
- Compact design with good corrosion resistance.
- Wide range of 5/2 and 5/3 versions.
- High and low temperature versions available for transport applications.





Operating information

Working pressure, max :		10 bar	
Working temperature, star	ndard		
Electrically actuated :		-10 °C to +	50 °C
Pneumatic actuated :		-40 °C to +	60 °C
Flow (Qmax) : P2LAX	P2LXB	P2LCX	P2LDX
1140 l/min	2280 l/min	4320 l/min	4680 l/min
ATEX approval : CE Ex II 2	2GD c 135 °(C	

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Pneumatic pilot operated valves - Xtreme operating pressure / temperature

Max operating pressure 16 bar (A & B) 12 bar (C & D). temp range -40°C to +60°C

Symbol	Size	Actuation	Return	Min Operating Pressure (bar)	Changeover time (ms) at 6 bar @20°C actua./return	Weight Kg	Order code
/2 valves, temp	erature -40°C	to +60°C					
	G1/8	Air signal	Air signal	1,5	5/5	0,30	P2LAX311PP-EX
	G1/4	-	-	1,5	5/5	0,30	P2LBX312PP-EX
····{L_I_I_}	G3/8			1,5	8/8	0,45	P2LCX313PP-EX
	G1/2			1,5	9/9	0,45	P2LDX314PP-EX
	G1/8	Air signal	Spring	3,2	8/15	0,30	P2LAX311PS-EX
	G1/4			3,5	10/20	0,30	P2LBX312PS-EX
᠁ᡅᠴᡰᠯᠫ᠁	G3/8			3,5	10/30	0,45	P2LCX313PS-EX
	G1/2			3,5	10/30	0,45	P2LDX314PS-EX

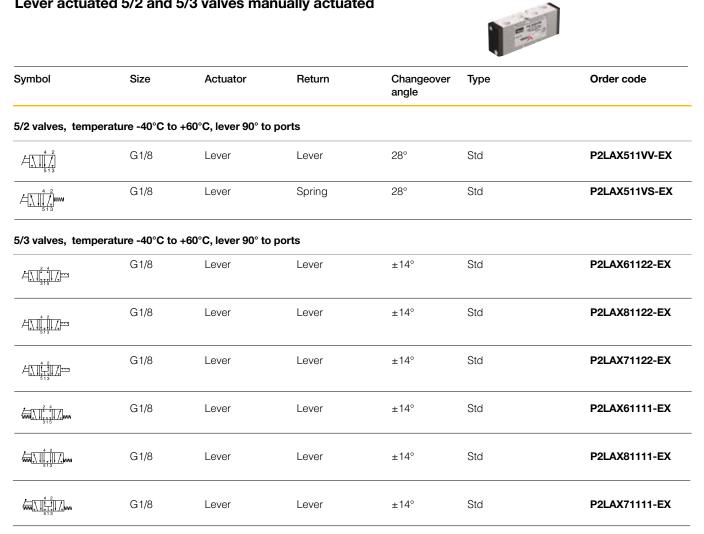
Lever operated directional control valves

Max operating pressure 16 bar (A & B) 12 bar (C & D). temp range -40°C to +60°C

Symbol	Size	Actuation	Return	Changeover	Changeover	Туре	Weight	Order code
		<i>.</i>			Force		Kg	
3/2 valves, stand	ard temperat	ure / Low temper	rature, lever 90	o to ports				
	G1/8	Lever	Lever	20 ⁰	9 N	Std.	0,33	P2LAX311VV-EX
	G1/4	Lever	Lever	20 ⁰	9 N	Std.	0,33	P2LBX312VV-EX
ALI	G3/8	Lever	Lever	32 ⁰	25 N	Std.	0,40	P2LCX313VV-EX
	G1/2	Lever	Lever	32 ⁰	25 N	Std.	0,60	P2LDX314VV-EX
	G1/8	Lever	Spring	20 ⁰	10N	Std.	0,33	P2LAX311VS-EX
8 [1]	G1/4	Lever	Spring	20 ⁰	10N	Std.	0,33	P2LBX312VS-EX
Å_T_T_₩	G3/8	Lever	Spring	32°	15 N	Std.	0,40	P2LCX313VS-EX
	G1/2	Lever	Spring	32°	15 N	Std.	0,60	P2LDX314VS-EX



Lever actuated 5/2 and 5/3 valves manually actuated



BSP: P2LAX511VV-EX NPT : P2LAX591VV-EX

Pneumatically actuated 5/2 and 5/3 valves

Symbol	Size	Actuator	Return	Signal pressur min. (bar) at 6 bar actua./return	e Changeover time (ms) at 6 bar actua./return	Order code
5/2 valves, tempe	rature -40°C to	+60°C				
{T_1} + 2 T_1 + T_1	G1/8	Air pilot	Air pilot	1,5/1,5	6/6	P2LAX511PP-EX
14 513 12	G1/4			1,5/1,5	10/10	P2LBX512PP-EX
	G3/8			1,5/1,5	12/12	P2LCX513PP-EX
	G1/2			2,0/2,0	20/20	P2LDX514PP-EX
	G1/8	Air pilot	Spring	3,2/-	8/18	P2LAX511PS-EX
14 513	G1/4			3,5/-	15/25	P2LBX512PS-EX
	G3/8			3,5/-	10/15	P2LCX513PS-EX
	G1/2			3,5/-	20/25	P2LDX514PS-EX
5/3 valves, tempe	rature -40°C to	+60°C				
	G1/8	Air pilot closed	Air pilot self centring	3,8/-	10/20	P2LAX611PP-EX
	G1/4	centre position		3,5/-	15/25	P2LBX612PP-EX
	G3/8			3,8/-	20/30	P2LCX613PP-EX
	G1/2			3,8/-	20/40	P2LDX614PP-EX
	G1/8	Air pilot	Air pilot	3,8/-	10/20	P2LAX811PP-EX
14 013 12	G1/4	vented centre	self centring	3,5/-	15/25	P2LBX812PP-E>
	G3/8			3,8/-	20/30	P2LCX813PP-E>
	G1/2			3,8/-	20/40	P2LDX814PP-EX
₩₩\\] [‡] ± ¹ 7₩₩	G1/8	Air pilot	Air pilot	3,8/-	10/20	P2LAX711PP-EX
	G1/4	pressure centre	self centering	3,5/-	15/25	P2LBX712PP-EX
	G3/8			3,8/-	20/30	P2LCX713PP-EX
	G1/2			3,8/-	20/40	P2LDX714PP-E>

BSP : P2LAX511PP-EX NPT : P2LAX591PP-EX



Complete valve

Electrically actuated 5/2 and 5/3 valves (supplied with 22 mm solenoid operator and coil)

iymbol	Size	Actuator	Return	Signal pressur min. (bar) at 6 bar actua./return	e Changeover time (ms) at 6 bar actua./return	Order code
2 valves, interna	al air, temperatu	re -10°C to +50°C				
	G1/8	Electric signal	Electric signal	1,5/1,5	10/10	P2LAX511EEADDM**
	G1/4	-	-	1,5/1,5	22/22	P2LBX512EEADDM**
	G3/8			1,5/1,5	40/40	P2LCX513EEADDM**
	G1/2			1,5/1,5	40/40	P2LDX514EENDDM**
	G1/8	Electric signal	Spring	3,2/-	12/30	P2LAX511ESADDM**
14 51312	G1/4	0		3,5/-	15/25	P2LBX512ESADDM**
	G3/8			3,7/-	25/65	P2LCX513ESADDM**
	G1/2			3,7/-	25/65	P2LDX514ESADDM**
4 2	G1/8	Electric signal	Air signal	1,5/1,5	10/6	P2LAX511EPADDM**
	G1/4			1,5/1,5	22/10	P2LBX512EPADDM**
14 51312	G3/8			1,5/1,5	25/40	P2LCX513EPADDM**
	G1/2			1,5/1,5	25/40	P2LDX514EPADDM**
/3 valves, interna	al air, temperatu	re -10°C to +50°C				
4 2	G1/8	Electric signal	Electric signal	3,8/-	16/34	P2LAX611EEADDM**
	G1/4	closed centre	self	3,5/-	25/30	P2LBX612EEADDM**
14 013 12	G3/8	position	centering	4,0/-	90/90	P2LCX613EEADDM**
	G1/2			4,0/-	90/90	P2LDX614EEADDM**
	G1/8	Electric signal	Electric signal	3,8/-	16/34	P2LAX811EEADDM**
<u></u>	G1/4	vented centre	self	3,5/-	25/30	P2LBX812EEADDM**
14 51 3 12	G3/8	position	centering	4,0/-	90/90	P2LCX813EEADDM**
	G1/2	·	-	4,0/-	90/90	P2LDX814EEADDM**
	G1/8	Electric signal	Electric signal	3 8/-	16/34	P2LAX711EEADDM**

Note :

Substitute ** with voltage code 12 V DC = 45 24 V DC = 49 110 V AC = 53 230 V AC = 57

BSP : P2LAX511EEADDM** NPT : P2LAX591EEADDM**

Spare parts - 22 mm Solenoid operators complete with coils With non-locking manual override

 Coils fitted with prewired 3 m long cable

 Voltage
 Form
 Order code

 12 V DC
 B
 P2FS13A3DM45

 24 V DC
 B
 P2FS13A3DM49

 110 V 50 Hz, 120 V60 Hz
 B
 P2FS13A3DM53

 230 V 50 Hz, 230 V60 Hz
 B
 P2FS13A3DM57

C E II 2G EEx m II T4 II 2D IP65 T130 °C

IEC Ex m II T4 IP65 DIP A21 T130 °C



ATEX limit switches

Compact 3/2 normally closed metal bodied valves with push-in air connections. Designed for the process duty cycle with high durability. Ideal for the process or packaging industry.

- High durability
- Very good repeat accuracy
- Design for process duty cycle
- Push-in connection
- Versatile and easily maintained
- Miniature size



PXC

Operating information

Working pressure : PXC-M

Working temperature :

3 to 8 bar

-15 °C to +60 °C

PXC-M11. PXC-M12. PXC-M52.

PXC-M13.

Flow (Qmax) : 60 l/min 85 l/min 250 l/min ATEX approval : CE Ex II 2GD c 85 $^\circ\mathrm{C}$

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

Bore Ø 1,5 mm, flow 60 l/min

(€ 🕼 II 2GD c 85 °C

 Symbol	Actuator	Return	Operating forces at 6 bar, N	Connection	Order code
	Steel plunger	Spring	11	Instant. Ø 4 mm	PXC-M111-EX
	Steel plunger	Spring	11	M5	PXC-M115-EX

Bore Ø 1,5 mm, flow 85 l/min

Symbol	Actuator	Return	Operating forces at 6 bar, ${\sf N}$	Connection	Order code
	Plastic roller	Spring	4,5	Instant. Ø 4 mm	PXC-M121-EX
	Plastic roller	Spring	4,5	M5	PXC-M125-EX
	Steel roller	Spring	4,5	Instant. Ø 4 mm	PXC-M131-EX
	Steel roller	Spring	4,5	M5	PXC-M135-EX

Bore Ø 2,5 mm, flow 250 l/min

Symbol	Actuator at 6 bar, N	Return	Operating forces	Connection	Order code
œ ŢŢŢŹŢ ₩₩	Plastic roller	Spring	7	Instant. Ø 4 mm	PXC-M521-EX



Designed to fit the standard electrical Ø22mm knock out, they can provide dual pneumatic and electrical output signals. A variety of button and switch actuators are available.

- Facia mounted operation
- 3/2 NO or NC
- Modular construction
- Wide range of actuators
- Dual pneumatic an electrical output signal

Flow characteristics (according to ISO 6358)					
PXB-B3•• : PXB-B4•• :	Qmax = 60 l/min Qn = 30 l/min Qmax = 240 l/min				
Connections :	Qn = 120 l/min				
Connections :	Ø 4 mm push-in				

€ (€ () | 2GD c 85 °C

Spring return push buttons

Flow	Order code
60 l/min	PXB-B3111BA2-EX
240 l/min	PXB-B4131BA2-EX
IC valve	
Flow	Order code
60 l/min	PXB-B3111BA4-EX
240 l/min	PXB-B4131BA4-EX
	60 l/min 240 l/min IC valve Flow 60 l/min

Symbol Flow Order code 60 l/min PXB-B3111BA3-EX ⊧"IZw PXB-B4131BA3-EX 240 l/min Green - With 1 NC valve

Red - With 1 NC valve

Mushroom head push buttons

Symbol	Flow	Order code			
	w 60 l/min	PXB-B3111BC2-EX *			
	240 l/min	PXB-B4131BC2-EX *			

Black - Spring return - With 1 NC valve

* Replacing 2 by **3** = green, by **4** = red

Selector switches

Symbol	Flow	Order code PXB-B3111BD2-EX **		
	60 l/min	PXB-B3111BD2-EX **		
LE CR	240 l/min	PXB-B4131BD2-EX **		

Black - 2 positions - With 1 NC valve

** Replacing 2 by 3 = 3 positions fixed, by 5 = 3 positions centre return





Operating information

Push button valves - Visual indicators

Push button valves - visu	al indicators
Working pressure	
PXB-B3•• :	1 to 9 bar
PXB-B4•• :	1 to 10 bar
PXV-•• :	1 to 8 bar
Working temperature	-15°C to +60°C
ATEX approval PXB :	CE Ex II 2GD c T6 80°C
PXV :	CE Ex II 2GD c 85 °C

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

,	Symbol		FIOW	Order code			
	M .	¢ ⊨,†,, w	60 l/min	PXB-B3111BT4-EX			
		\bigcirc	240 l/min	PXB-B4131BT4-EX			
	Red - Latching - With 1 NC valve						

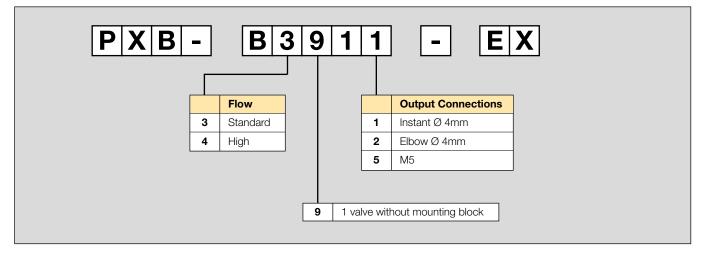


Order Key Code

1. Basic Pneumatic Push Button Valve

_							
<u>P</u>	X B -	B 3	2 -	1 1	В	A2	- EX
_							
							1
	Flow						Head type
3	Standard					A2	Flush Black
4	High					A3	Flush Green
						A4	Flush Red
						L2	Projecting Black
	Valve number					L3	Projecting Green
1	1 valve + mounting block					L4	Projecting Red
2	2 valves + mounting bloc	k				P2	Booted Black
3	3 valves + mounting bloc	k				P3	Booted Green
	1					P4	Booted Red
Γ						C2	Mushroom spring return Ø 40mm Black
	Valve type switching					C3	Mushroom spring return Ø 40mm Gree
1	All NNP					C4	Mushroom spring return Ø 40mm Red
2	All NP					BT2	Mushroom Latching Ø 40mm Black
3	NP or NNP (PXB-4)					BT4	Mushroom Latching Ø 40mm Red
5	1 NNP if 2 or 3 valves					BD2	Selector 2 positions Black
6	1 NP if 3 valves					BD3	Selector 3 positions fixed Black
	1					BD5	Selector 3 positions center return Blac
Γ							
	Output Connections					Head	and mounting block material
1	Instant Ø 4mm				Α	Plastic	
2	Elbow Ø 4mm				В	Metal	
5	M5						

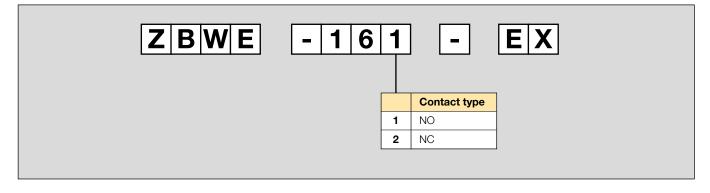
2. Additional Pneumatic Valve



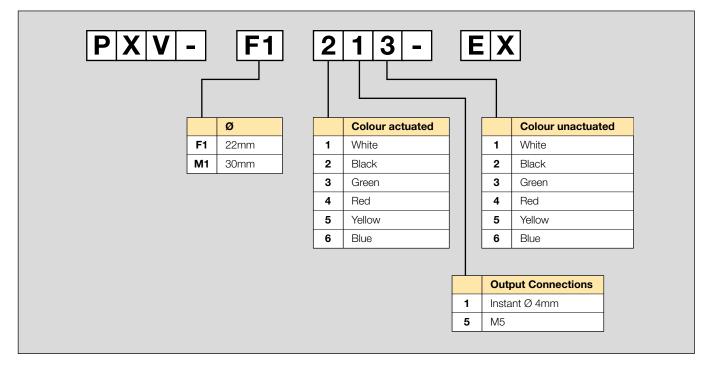


Order Key Code

3. Additional Electrical Contact Block



4. Visual Indicators

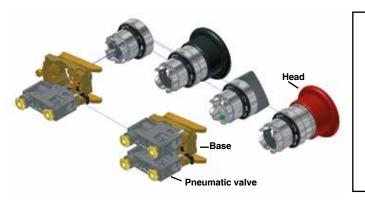




Symbol Contact Order code Symbol Flow Order code 🖬 60 l/min **PXB-B3911-EX** ZBWE-161-EX Normally open NC NO -----Normally closed **ZBWE-162-EX PXB-B4931-EX** NC NC X =고다. 60 l/min **PXB-B3921-EX** NC NO All PXB-B4 valves can be connected either as normally closed 3/2 valve (NC) or normally open 3/2 valve (NO) as required, by connecting the primary air **PXB-B4931-EX** supply to port 1 or port 3. NO NO

Additional pneumatic switch valves, and electrical contact block without mounting brackets

Mixed products



Heads cannot be ordered separately. They are integrated into the basic pneumatic push button valve.

Mixed electro-pneumatic products can be built with a combination of a complete basic pneumatic push button valve and an additional electrical contact.

Eg : PXB -B3111BC2-EX + PXB-B4931-EX + ZBWE-161-EX

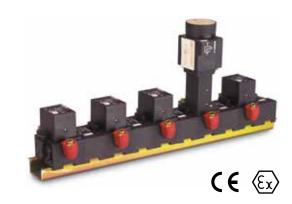
Visual indicators



ATEX logic processing

Miniature high-speed valves in stand alone, stackable or combined modules, incorporating standard logic functions. The range also includes timers and impulse modules.

- Complete range
- Stand alone, stackable or combinable modules
- Very fast response time
- Flexible and highly maintainable system
- DIN rail mounting



Operating information

Working pressure : Working temperature : Flow (Qmax) : ATEX approval : 3 to 8 bar -15 °C to 60 °C 180 l/min (PRD = 90 l/min) CE Ex II 2GD c 85 °C

For details, see technical catalogue on web site : www.parker.com/euro_pneumatic

YES regenerated

3 port subbase to be ordered separately.



Logic sequencer

Step modules		Interlock Step module		
Visual indication of pneumatic output				
	Order code		Order code	
Without subbase Manual override	PSM-A10-EX	Additional interlock	PSV-A12-EX	
With subbase Manual override	PSM-A12-EX			
With subbase Wihtout manual override	PSM-B12-EX			

Logic elements

Line mounted elements		Combinable elements		Subbase mounted elements	
Logic Function	Order code	Logic Function	Order code	Logic Function	Order code
AND OR	PLL-A11-EX PLK-A11-EX	AND OR NOT	PLL-B12-EX PLK-B12-EX PLN-B12-EX	AND NOT inhibit standard NOT inhibit threshold	PLL-C10-EX PLN-C10-EX PLN-D10-EX
				OB	PLK-C10-FX

Logic relays

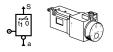
Sensor relays		Amplifier relays To be used with 4 port subbase		Memory relays To be used with 4 port subbase	
	Order code		Order code		Order code
With subbase	PRF-A12-EX	With subbase	PRD-A12-EX	With subbase	PLM-A12-EX
Without subbase	PRF-A10-EX	Without subbase	PRD-A10-EX	Without subbase	PLM-A10-EX



PLJ-C10-EX

Time delay relays

To be mounted on 3 port subbase



Function	Timing	Order code
Output after timed period	0,1 to 3s 0,1 to 30s 10 to 180s	PRT-E10-EX PRT-A10-EX PRT-B10-EX
With subbase	0,1 to 30s	PRT-A12-EX
Output during timed period	0,1 to 3s 0,1 to 30s 10 to 180s	PRT-F10-EX PRT-C10-EX PRT-D10-EX



Not elements	
Description	Order code
PLNC10 on PZUA12 subbase	PLN-C12-EX
PLND10 on PZUA12 subbase	PLN-D12-EX



- Space saving integral gauge (P31 size only)
- Manifold style regulators available
- OSHA compliant shut-off valves
- Soft-Start & Quick Dump valves

Operating information		Flow characteristics					
Working pressure : Metal bowl:	17 bar max	40mm body widt 1/4" Ported	h	60mm body widt 1/4", 3/8", & 1/2"		73mm body widt 1/2" & 3/4" Porte	
		Flow	dm³/s	Flow	dm³/s	Flow	dm³/s
Working temperature :		Filter	12	Filter	38	Filter	48
* Metal bowl:	-10°C to +65.5°C	Coalescing Filter	2	Coalescing Filter	11	Coalescing Filter	20
		Regulator	30	Regulator	67	Regulator	100
ATEX: 'Out of Scope' Cer	rtificate	Filter Regulator	14	Filter Regulator	64	Filter Regulator	98
* Refer to Technical Catalogue for individual unit temperatures		Lubricator	13	Lubricator	47	Lubricator	68

Filters - 5 µm

Port	Description	Order code
1/4"	Metal bowl - Manual drain	P31FA12EMMN
1/4"	Metal bowl - Pulse drain	P31FA12EMBN
1/4	Metal bowl sight glass - Manual drain	P32FA12ESMN
1/4	Metal bowl sight glass - Auto drain	P32FA12ESAN
3/8	Metal bowl sight glass - Manual drain	P32FA13ESMN
3/8	Metal bowl sight glass - Auto drain	P32FA13ESAN
1/2	Metal bowl sight glass - Manual drain	P32FA14ESMN
1/2	Metal bowl sight glass - Auto drain	P32FA14ESAN
1/2"	Metal bowl sight glass - Manual drain	P33FA14ESMN
1/2"	Metal bowl sight glass - Auto drain	P33FA14ESAN
3/4"	Metal bowl sight glass - Manual drain	P33FA16ESMN
3/4"	Metal bowl sight glass - Auto drain	P33FA16ESAN

Regulators

Port	Description	Order code
1/4"	8 bar relieving	P31RA12BNNP
1/4"	8 bar relieving + gauge	P31RA12BNTP
1/4"	8 bar (125 psi) Relieving	P32RA12BNNP
1/4"	8 bar (125 psi) Relieving + Gauge	P32RA12BNGP
3/8"	8 bar (125 psi) Relieving	P32RA13BNNP
3/8"	8 bar (125 psi) Relieving + Gauge	P32RA13BNGP
1/2"	8 bar (125 psi) Relieving	P32RA14BNNP
1/2"	8 bar (125 psi) Relieving + Gauge	P32RA14BNGP
1/2"	8 bar (125 psi) Relieving	P33RA14BNNP
1/2"	8 bar (125 psi) Relieving + Gauge	P33RA14BNGP
3/4"	8 bar (125 psi) Relieving	P33RA16BNNP
3/4"	8 bar (125 psi) Relieving + Gauge	P33RA16BNGP

Coalescing Filters + Absorbers - 0,01 µm

		<u> </u>
Port	Description	Order code
1/4"	Metal bowl - 0.01 µ - Manual drain	P31FA12CMMN
1/4"	Metal bowl - 0.01 µ - Pulse drain	P31FA12CMBN
1/4"	Metal bowl - Adsorber	P31FA12AMMN
1/4"	Metal bowl sight glass - 0.01 µ, Man. drain	P32FA12DSMN
1/4"	Metal bowl sight glass - 0.01 µ, Auto drain	P32FA12DSAN
3/8"	Metal bowl sight glass - 0.01 µ, Man. drain	P32FA13DSMN
3/8"	Metal bowl sight glass - 0.01 µ, Auto drain	P32FA13DSAN
1/2"	Metal bowl sight glass - 0.01 µ, Man. drain	P32FA14DSMN
1/2"	Metal bowl sight glass - 0.01 µ, Auto drain	P32FA14DSAN
1/4"	Metal bowl sight glass - Adsorber	P32FA12ASMN
3/8"	Metal bowl sight glass - Adsorber	P32FA13ASMN
1/2"	Metal bowl sight glass - Adsorber	P32FA14ASMN
1/2"	Metal bowl sight glass - 0.01 µ, Man. drain	P33FA14DSMN
1/2"	Metal bowl sight glass - 0.01 µ, Auto drain	P33FA14DSAN
3/4"	Metal bowl sight glass - 0.01 µ, Man. drain	P33FA16DSMN
3/4"	Metal bowl sight glass - 0.01 µ, Auto drain	P33FA16DSAN
1/2"	Metal bowl sight glass - Adsorber	P33FA14ASMN
3/4"	Metal bowl sight glass - Adsorber	P33FA16ASMN

Lubricators

Port	Description	Order code
1/4"	Metal bowl - No drain	P31LA12LMNN
1/4"	Metal bowl - No drain	P32LA12LSNN
3/8"	Metal bowl - No drain	P32LA13LSNN
1/2"	Metal bowl - No drain	P32LA14LSNN
1/2"	Metal bowl - No drain	P33LA14LSNN
3/4"	Metal bowl - No drain	P33LA16LSNN

Accessories

Description	Order code P31 Series	P32 Series	P33 Series
Body Connector	P31KA00CB	P32KA00CB	
T-bracket with Body Connector	P31KA00MT	P32KA00MT	
Angle Bracket	P31KA00MR	P32KA00MR	P33KA00MR
C-bracket - fits Filter & Lubricator	P31KA00MW		
L-bracket - fits Filter & Lubricator		P32KA00ML	P32KA00ML



Filter Regulators - (P31) pressures 2 & 4 bar (P32/P33) pressures 2,4 & 17 bar available.

Port	Description	Order code
1/4"	8 bar (125 psi) Relieving - Metal bowl - Manual drain	P31EA12EMMBNTP
1/4"	8 bar (125 psi) Relieving - Metal bowl - Pulse drain	P31EA12EMBBNTP
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA12ESMBNGP
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA12ESABNGP
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA13ESMBNGP
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA13ESABNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA14ESMBNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA14ESABNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA14ESMBNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA14ESABNGP
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA16ESMBNGP
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA16ESABNGP

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31TA12SGN0000
1/4	Air pilot operated	P31TA12PPN
1/2	Solenoid operated (not included)	P32TA14SCN0000
1/2	Air pilot operated	P32TA14PPN

Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31DA12SGN0000
1/4	Air pilot operated	P31DA12PPN
1/2	Solenoid operated (not included)	P32DA14SCN0000
1/2	Air pilot operated	P32DA14PPN

Soft Start Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31SA12SGN0000
1/4	External air pilot (1/8 threaded)	P31SA12PPN
1/2	Solenoid operated (not included)	P32SA14SCN0000
1/2	Internal air pilot operated	P32SA14Y0N
1/2	External air pilot (1/8 threaded)	P32SA14PPN

Model type	Port size	Thread type	Flow dm ³ /s (scfm)	Modular Ball Valve Flow from left to right
P31	1/4"	BSPP	20 (42.4)	P31VA <u>1</u> 2LBNN
P32	3/8"	BSPP	90 (190.7)	P32VA <u>1</u> 3LBNN
	1/2"	BSPP	122 (258.5)	P32VA <u>1</u> 4LBNN
P33	1/2"	BSPP	122 (258.5)	P33VA <u>1</u> 4LBNN
	3/4"	BSPP	122 (258.5)	P33VA <u>1</u> 6LBNN

For thread type: BSPP <u>1</u> NPT <u>9</u>

Modular Ball Valve

Manifold Blocks

Model Type	In / Out Port Size	Auxiliary Port Size Top	Auxilliary Port Size Bottom	Thread Type	Order Code
P31	1/4"	1/4"	1/4"	BSPP	P31MA <u>1</u> 2022N
P32	1/2"	1/4"	1/2"	BSPP	P32MA <u>1</u> 4024N
P33	3/4"	1/4"	1/2"	BSPP	P33MA <u>1</u> 6024N
For threa	ad type:	BSPP <u>1</u> NPT 9			

Gauges

Port	Description		Order code
P31	Square Flush Mounting Gauge	0-4 bar 0-10 bar	K4511SCR04B K4511SCR11B
P31	40mm Round Gauge 1/8"	0-30 psi / 0-2 bar 0-60 psi / 0-4.1 bar 0-160 psi / 0-10 bar	P3D-KAB1AYN P3D-KAB1ALN P3D-KAB1ANN
P32 / P33	50mm Round Gauge 1/4"	0-60 psi / 0-4.1 bar 0-160 psi / 0-10 bar 0-300 psi / 0-20 bar	P6G-ERB2040 P6G-ERB2110 P6G-ERB2200

Safety Lockout Valves

Model Type	Port Size	Thread type	Safety Lockout Valve Flow from left to right
P31	1/4	BSPP	P31VA <u>1</u> 2LSAN
P32	3/8	BSPP	P32VA <u>1</u> 3LSAN
	1/2	BSPP	P32VA <u>1</u> 4LSAN
P33	1/2	BSPP	P33VA <u>1</u> 4LSAN
	3/4	BSPP	P33VA <u>1</u> 6LSAN
Model Type	Port Size	Thread type	Safety Lockout Valve Flow from right to left
P32	3/8	BSPP	P32VA <u>1</u> 3LSBN
	1/2	BSPP	P32VA <u>1</u> 4LSBN
P33	1/2	BSPP	P33VA <u>1</u> 4LSBN
	3/4	BSPP	P33VA16LSBN

For thread type: NPT 9



- Integral 3/4 or 1" ports (BSPP or NPT)
- High efficiency element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Low temperature -40'C with Regulators/Filters and Filter Regulators using combined manual/semi auto drain as standard without pressure gauge.

Operating information

Working pressure:	Max 17.5 bar
Working temperature:	-10 °C to +60 °C

ATEX: 'Out of Scope' Certificate

Filters - 40 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA16GSCN
G3/4	Auto drain	P3YFA16GSAN
G1"	Manual drain / Semi auto	P3YFA18GSCN
G1"	Auto drain	P3YFA18GSAN
	Mounting bracket	P3YKA00CW

Dust Filters - 1 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA162SCN
G3/4	Auto drain	P3YFA162SAN
G1"	Manual drain / Semi auto	P3YFA182SCN
G1"	Auto drain	P3YFA182SAN

Regulators - relieving type - non relieving options available

Port	Description	Order Code
size		
G3/4	12 bar relieving	P3YRA16BNEN
G3/4	12 bar relieving + gauge	P3YRA16BNFN
G1"	12 bar relieving	P3YRA18BNEN
G1"	12 bar relieving + gauge	P3YRA18BNFN
G3/4	12 bar relieving, lockable	P3YRA16BAEN
G3/4	12 bar relieving, lockable + gauge	P3YRA16BAFN
G1"	12 bar relieving, lockable	P3YRA18BAEN
G1"	12 bar relieving, lockable + gauge	P3YRA18BAFN

Pressure Gauges

	Order Code
0 - 10 bar	KG8012-00
0 - 16 bar	KG8013-00

ę	:

Flow characteristics Flow dm³/s 3/4 1" Filter 116 119 **Dust Filter** 137 145 Coalescing Filter 59 49 Adsorber Filter 47 50 155 321 Regulator

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
G3/4	Coalescing 0.01µm, manual/semi auto drain	P3YFA16DSCN
G3/4	Coalescing Filter 0.01µm, auto drain	P3YFA16DSAN
G1"	Coalescing 0.01µm, manual/semi auto drain	P3YFA18DSCN
G1"	Coalescing Filter 0.01µm, auto drain	P3YFA18DSAN

190

162

237

184

Adsorber Filters

Filter Regulator

Lubricator

Port size	Description	Order Code
G3/4	Adsorber 0.01µm, manual drain	P3YFA16ASCN
G1"	Adsorber 0.01µm, manual drain	P3YFA18ASCN

Lubricators

Port size	Description	Order Code
G3/4	Oil mist, fill under pressure	P3YLA16LSNN
G1"	Oil mist, fill under pressure	P3YLA18LSNN

Filter/Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G3/4	12 bar, relieving manual/semi auto drain	P3YEA16GSCBNEN
G3/4	12 bar, relieving auto drain	P3YEA16GSABNEN
G3/4	12 bar, relieving manual/semi auto + gauge	P3YEA16GSCBNFN
G3/4	12 bar, relieving auto drain + gauge	P3YEA16GSABNFN
G1"	12 bar, relieving manual/semi auto drain	P3YEA18GSCBNEN
G1"	12 bar, relieving auto drain	P3YEA18GSABNEN
G1"	12 bar, relieving manual/semi auto + gauge	P3YEA18GSCBNFN
G1"	12 bar, relieving auto drain + gauge	P3YEA18GSABNFN



Proportional Pressure Regulator

Port size	Description	Order Code
G3/4	Normally closed	P3YPA16BD2VA2A
G1"	Normally closed	P3YPA18BD2VA2A

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port size	Description	Order Code
G3/4	Solenoid operated (not included)	P3YTA16SCN0000
G3/4	24VDC 22mm coil	P3YTA16SCNB2CN
G3/4	Air pilot operated	P3YTA16PPN
G1"	Solenoid operated (not included)	P3YTA18SCN0000
G1"	24VDC 22mm coil	P3YTA18SCNB2CN
G1"	Air pilot operated	P3YTA18PPN

Pilot Operated Regulator

Port size	Description	Order Code
G3/4	Pilot operated regulator	P3YRA16BPPN
G1"	Pilot operated regulator	P3YRA18BPPN

Modular Ball Valve

Port size	Description	Order Code
G3/4	Modular Ball Valve	P3YVA16LBN
G1"	Modular Ball Valve	P3YVA18LBN

Modular Manifold

Port size	Description	Width	Order Code
G3/4	Modular Manifold	(80 mm)	P3YMA1V0N
G1"	Modular Manifold	(80 mm)	P3YMA9V0N
G3/4	Modular Manifold	(35 mm)	P3YMA16024N

Soft Start Valve

Port size	Description	Order Code
G3/4	Soft start valve	P3YSA16Y0N
G1"	Soft start valve	P3YSA18Y0N

Optional Port Block Kits

Port size	Description	Order Code
G1 ¹ /4"	Port block kit - BSPP	P3YKA1ACP
G1 ¹ /2"	Port block kit - BSPP	P3YKA1BCP
G3/4"	Port block kit - BSPP	P3YKA16CP
G1"	Port block kit - BSPP	P3YKA18CP

Neck mounting bracket kit

Connector kit

Description	Order Code
Neck mounting bracket kit	P3YKA00MS

Description	Order Code
Connector kit	P3YKA00CB

Wall mounting brackets

Description	Order Code
Wall mounting brackets	P3YKA00CW

The all metal P3Z Series FRLs are ideal for most medium sized ring main installations.

- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Threaded port flange available to G1-1/2" and G2"
- Proportional oil delivery over a wide range of air flows.

Filters

Port size	Description	Order Code
-	40µ auto drain without flange SAE	P3ZFA00HMAN
G1.1/2"	40µ auto drain flange fitted to SAE	P3ZFA1BHMAN
G2"	40µ auto drain flange fitted to SAE	P3ZFA1CHMAN

Dust Filters

Port size	Description	Order Code
-	1µ auto drain (pressure relief) without flange SAE	P3ZFA00MMAN
G1.1/2"	1µ auto drain (pressure relief) flange fitted to SAE	P3ZFA1BMMAN
G2"	1µ auto drain (pressure relief) flange fitted to SAE	P3ZFA1CMMAN

Regulators

Port size	Description	Order Code
-	8 bar, relieving + gauge, without flange SAE	P3ZRA00BNGN
G1.1/2"	8 bar, relieving + gauge	P3ZRA1BBNGN
G2"	8 bar, relieving + gauge	P3ZRA1CBNGN
-	16 bar relieving + gauge, without flange SAE	P3ZRA00BNJN
G1.1/2"	16 bar, relieving + gauge	P3ZRA1BBNJN
G2"	16 bar, relieving + gauge	P3ZRA1CBNJN

Options & Accessories

Port size	Description	Order Code
G1.1/2"	Connection flange kit	P3ZKA1BCP
G2"	Connection flange kit	P3ZKA1CCP
-	Wall mounting kit	P3ZKA00MW
-	Coupling kit	P3ZKA00CB
-	Coupling 'O' ring kit (5 off)	P3ZKA0CCY
-	Porting block kit (1", 1/8" & 2 x 1/4" take off)	P3ZMA1V0N



Operatir	Operating information			
Working pre	ssure:	0 - 17.5 bar		
Working terr	perature:	0 °C to +60 °C		
ATEX: 'Out	of Scope' Certific	cate		
Flow ch	aracteristics	;		
Flow	Filter	>666,6 dm ³ /s		
	Regulator	>666,6 dm ³ /s		

>666,6 dm³/s

Coalescing Filters

Lubricator

Port size	Description	Order Code
-	0.01 micron, auto drain	P3ZFA00DMAN
G1.1/2"	0.01 micron, auto drain, flange fitted to SAE	P3ZFA1BDMAN
G2"	0.01 micron, auto drain, flange fitted to SAE	P3ZFA1CDMAN

Adsorber Filters

Port size	Description	Order Code
-	Adsorber, auto drain	P3ZFA00BMAN
G1.1/2"	Adsorber, auto drain	P3ZFA1BBMAN
G2"	Adsorber, auto drain	P3ZFA1CBMAN

Lubricators

Port size	Description	Order Code
-	Lubricator, without flange SAE	P3ZLA00LSMN
G1.1/2"	Lubricator	P3ZLA1BLSMN
G2"	Lubricator	P3ZLA1CLSMN
	Lubricator OIL - VG32 - 1 Litre	P3YKA00PPBB

Regulators Pilot Control

Port size	Description	Order Code
-	16 bar, air pilot	P3ZRA00BPPN
G1.1/2"	16 bar, relieving + gauge	P3ZRA1BBPPN
G2"	16 bar, relieving + gauge	P3ZRA1CBPPN



ATEX cylinder controls

A range of speed controls, flow controls and plug-in sensor designed to be mounted directly onto the cylinder in the optimum position for maximum performance.



- "Push-in" or threaded connection
- Multifunction options
- Fit directly to cylinder ports
- Swivelling pilot banjo
- Pneumatic back pressure sensor

Operating inform	nation	
Working pressure :		
PWR-H, HB PWS-P	1-10 bar 0-10 bar	
Working temperature	: -15°C to +60°C	
Pilot pressure at 6 bar	supply :	
PWR-HB	(1/8", 1/4" versions)	
PWS-P111	(1/2" and 3/8" versions)	: 4,4 bar
ATEX approval : CE Ex I	I 2GD c 85 °C	
For details, see techni www.parker.com/euro	cal catalogue on web site _pneumatic	9:

(€ 🕼 II 2GD c 85°C

Multifunction speed controls + blockers

Symbol	Connection for pilot port	Thread for cylinder connection	Push-in connection Ø, mm	Tightening torque Nm	Qmax input at 6 bar, l/min*	Order code
With push-in connection	ı					
barrel adjustment and	Push-in, Ø 4 mm	G1/8	4	8	330	PWR-HB1448-EX
locknut			6	8	500	PWR-HB1468-EX
-		G1/4	6	12	500	PWR-HB1469-EX
1	1		8	12	600	PWR-HB1489-EX
		G3/8	8	30	1200	PWR-HB1483-EX
			10	30	1300	PWR-HB1493-EX
		G1/2	10	35	1400	PWR-HB1492-EX

* Screw closed



Speed controlers, with adjustable exhaust restriction

For direct port cylinder mounting

PW

Symbol	Thread for cylinder connection	Push-in connection Ø, mm	Tightening torque Nm	Order code
	G1/8	4	8	PWR-H1448-EX
		6	8	PWR-H1468-EX
	G1/4	6	12	PWR-H1469-EX
		8	12	PWR-H1489-EX
	G3/8	8	30	PWR-H1483-EX
۶I٤		10	30	PWR-H1493-EX

Plug-in sensor

For use with banjo sockets

Sensing function	Output function	Push-in connection	Output characteristics	Order code
Exhaust back pressure threshold	Pneumatic	Push-in Ø 4 mm	NO valve flow rate at 6 bar 1,5 l/s	PWS-P111-EX

Banjo sockets for plug-in sensors (not submitted for ATEX approval) With sensor locking clip, for direct port cylinder mounting

	Thread size for cylinder port	Female thread	Tool required	Order code
	M5	M5	8 mm flat spanner	PWS-B155
	G <u>1/8</u>	G1/8	5 mm Allen key	PWS-B188
	G <u>1/4</u>	G1/4	8 mm Allen key	PWS-B199
THIN I	G3/8	G3/8	10 mm Allen key	PWS-B133
	G1/2	G1/2	12 mm Allen key	PWS-B122

Certificates summary

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Manufacturer

Particular considerations concerning the association of certified products ATEX constituting of sets, complete equipment or systems :

- cylinders and accessories as sensors, cylinder controls ;
- valves assembled with solenoids, connectors, islands ;
- FRL(s) combinations ;
- logic components in cabinets or housings ;
- mixed ATEX and non ATEX concerned components integrated on a single machine or device ;

ANY ASSEMBLY IS NOT COMPULSORY ATEX

User

According to 99/92/EC directive, the user (employer) must identify the buildings at the risks and classify them in zones. It defines the equipment adapted to its site.

Thus when it installs a whole equipment incorporating Atex certified apparatuses, and to avoid any risk of explosion, it must take into account the lower level of protection of the whole with regard to : the category, the maximum temperature of surface... and any parmeter indicated on the marking and in the instruction leaflet of each apparatus.



P1V-S Declaration of Conformity acc. ATEX 94/9/EC P1V-S Declaration of Incorporation acc. EC Machinery Directive 2006/42/EC



We Parker Hannifin Manufacturing Germany GmbH & Co. KG Pneumatic Division Europe Industriestrasse 8 70794 Filderstadt Germany

Declare that the following Air Motors have been assessed in accordance with ATEX 94/9/EC (Products for use in potentially explosive atmospheres). Air Motors P1V-S012, P1V-S020, P1V-S028, P1V-S030, P1V-S057, P1V-S060, P1V-S086 and P1V-S090 range are compatible for the use in explosive atmosphere Ex II 2 GD c T6 (T80°C) X. Air Motors P1V-S120 range are compatible for the use in explosive atmosphere Ex II 2 GD c T5 (T95°C) X. All without brake option.

P1V-S is designed for utilization in applications falling under the scope of the ATEX 94/9/EC. These produces designed and manufactured in compliance with following elements:

- EN 1127-1:2007 Explosive atmospheres Explosion prevention and protection Part 1: Basic of the ts and methodology
- EN 13463-1:2009 Non electrical equipment for use in potentially explosive atmospheres P. . . Basic method and requirements
- EN 13463-5 Non-electrical equipment intended for use in potentially explosive at roc א eres – Part 5: Protection by constructional safety 'c'
- EN 983+A1:2008 Safety of machinery Safety requirements for fluid power, systems and their components -Pneumatics

As manufacturer of the partly completed machine we declare that:

- The specified Air motor corresponds to the listed essential C July sments of the EC Machinery Directive 2006/42/EC
- The relevant technical documentation is complied in accordance with part B of Annex VII The relevant technical documentation in accordance with part B of Annex VII will be transmitted in response to a reasonable request by the national authorities

Product: Directives

2006/42/EC

Air motors P1V-S Date

Applied and fulfilled essential requirements 1.1.2, 1.1.5, 1.3.4, 1.5.3, 1.7.3, 1.7.4

Standards DIN EN ISO 12100

Date 2011-03

Remark Partly fulfilled

This partly completed na h ery must not be put into service until the final machinery into which it is to be incorporates has provider ared in conformity with the provisions of the Directive 2006/42/EG, were appropriated.

Stighter	
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Additional Information This coverage could only be referred to as long as operations needed for final assembling and starting up of theses products comply with standards relating to the above mentioned directive. Each time this will be required for compliance purpose, the user will have to apply for a complete coverage of the final assembled system according to the above mentioned directive and relating standards

Filderstadt, Germany June 2014

Ing. Franck Roussillon European Product Manager Actuators Business Unit, Pneumatic Division Europe





((Ex)

Additional safety instructions for installation in explosive atmospheres

Serious, even fatal, damage or injury may be caused by the hot moving parts of the P1V-S motors in the presence of explosive gas mixtures and concentrations of dust.

All installation, connection, commissioning, servicing and repair work on P1V-S motors must be carried out by qualified personnel taking account of the following :

- These instructions.
- Notices on the motor.
- All other planning documents, commissioning instructions and connection diagrams associated with the application.
- Provisions and requirements specific to the application.
- Applicable national/international regulations (explosion protection, safety and accident prevention).

Real life applications

P1V-S motors are designed to provide rotary movement in industrial applications, and should only be used in accordance with the instructions in the technical specifications in the catalogue, and within the operating range indicated on the motor housing. The motors meet the applicable standards and requirements of the Machinery Directive 94/9/EC (ATEX).

The motors must not be used as brakes in explosive atmospheres.

Braking involves driving the motor against the direction of rotation for which the motor is supplied with compressed air. The motor is then operating as a compressor, and there is a corresponding increase in temperature.

The motors must **not** be used underground in mines susceptible to firedamp and/or combustible dust. The motors are intended for use in areas in which explosive atmospheres caused by gases, vapours or mists of combustible liquids, or air/dust mixtures may be expected to occur during normal use (infrequently).

Checklist

Before using the motors in a potentially explosive atmosphere, you should check the following:

Do the motor specifications match the classification of the area of use in accordance with Directive 94/9/EC (previously ATEX 100a)?

- Equipment group.
- Equipment category.
- Zone.
- Temperature class.
- Max. surface temperature.
- 1. When installing the motor, is it certain that there is no potentially explosive atmosphere, oil, acids, gases, vapours or radiation?
- 2. Is the ambient temperature as specified in the technical data in the catalogue at all times?
- 3. Is it certain that the P1V-S motor is adequately ventilated and that no additional heat is added (for example in the shaft connection)?
- 4. Are all the driven mechanical components ATEX certified?

Installation requirements in potentially explosive atmospheres

- The temperature of the supply air must not exceed the ambient temperature.
- The P1V-S may be installed in any position.
- An air treatment unit must be attached to the inlet of the P1V-S air motor.
- In a potentially explosive atmosphere, none of the motor ports may be blocked because this may cause an increase in temperature. The air from the port must be taken to the silencer or, preferably, outside the potentially explosive area.
- The P1V-S motor must be connected to ground at all times, through its support, a metallic tube or separate conductor.
- The outlet of the P1V-S motor must not open within a potentially explosive area, but must be passed to the silencer or, preferably, removed and released outside the potentially explosive area.
- The P1V-S motor may only drive units that are ATEX certified.
- Ensure that the motor is not exposed to forces greater than those permitted in accordance with the catalogue.

Measuring the temperature on the outside of the P1V-S motor (only when used in potentially explosive areas)

During the commissioning process, it is essential to measure temperature increases at the indicated positions on the outside of the P1V-S motor.

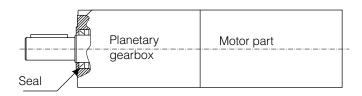
These measurements can be taken using standard thermometers.

Checking the motor during operation

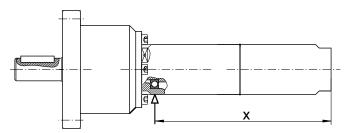
The motor must be kept clean on the outside, and a layer of dirt thicker than 5 mm must never be allowed to form. Strong solvents should not be used for cleaning, because they can cause the seal (material NBR/FPM) around the drive shaft to swell, potentially increasing the temperature.



The temperature is measured on the metal surface next to the seal around the output shaft on all P1V-S012, P1V-S020, P1V-S028, P1V-S030, P1V-S057, P1V-S060, P1V-S086 and P1V-S090 motors.



Motors P1V-S030A0023 and P1V-S030A0010



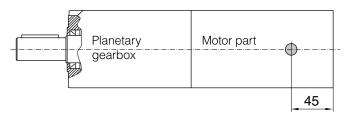
Motor	x [mm]	
P1V-S030A0023	146	
P1V-S030A0010	147,5	

The maximum temperature is reached after approximately 1,5 hours of operation, and the difference in temperature between the motor and the ambient temperature must not exceed 40 °C.

If the temperature difference at the seal of a P1V-S 120 to 900 watts exceeds 40 °C, you should stop the motor immediately and contact Parker Hannifin.

The following applies to the P1V-S120 series:

The temperature is measured on the metal surface at a point 45 mm from the port end of the motor housing, on all P1V-S120.



The maximum temperature is reached after approximately 1,5 hours of operation, and the difference in temperature between the motor and the ambient temperature must not exceed $55 \,^{\circ}\text{C}$.

If the temperature difference at this point on a P1V-S120 exceeds 55 °C, you should stop the motor immediately and contact Parker Hannifin.

Marking of products

For all P1V-S 120 to 900 watts



For the P1V-S120 1200 watts



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- Communatuté Européenne = EU CE marking shows that as a manufacturer, Parker
- Hannifin meets the guidelines specified by the EU
- **Ex** means that this product is intended for use in a potentially explosive area
- stands for the equipment group (I = mines and II = other places liable to be endangered)
- 2GD stands for equipment category
 2G means the equipment can be used in zones 1 and 2 where there is a risk involving gas, vapour or mist of combustible liquids and 2D in zones 21 and 22 where there is a risk involving dust .
 2GD means the equipment can be used in zones 1, 2, 21 and 22.
- c Safe design (prEN 13463-5)
- **IIC** Explosion group, P1V-S air motors are tested to the highest standards in terms of test gases, and can be installed in the presence of all gases without restriction.
- If equipment is in temperature class T6, the maximum surface temperature must not exceed 85 °C.
 (To guarantee this, the product has been tested to ensure that the maximum is 80 °C. This provides a safety margin of 5 °K.)
- T5 If equipment is in temperature class T5, the maximum surface temperature must not exceed 100 °C. (To guarantee this, the product has been tested to ensure that the maximum is 95 °C. This provides a safety margin of 5 °K.)
- (80 °C) Maximum permitted surface temperature on the motor in atmospheres containing potentially explosive dust.
- **X** Note special conditions

Test certificate number IBExU04ATEXB004 X from IBExU Institut für Sicherheitstechnik GmbH, D-09599 Freiberg, Germany



P1V-M Declaration of Conformity According to ATEX 94/9/EC P1V-M Declaration of Incorporation

According to EC Machinery Directive 2006/42/EC

We Parker Hannifin Manufacturing Germany GmbH & Co. KG Pneumatic Division Europe Industriestrasse 8 70794 Filderstadt Germany

Declare that the following Air Motors have been assessed in accordance with ATEX 94/9/EC (Products for use in potentially explosive atmospheres). Air Motors here below from the P1V-M series are compatible for the use in explosive atmosphere **Ex II 2 GD c IIC T4 (130°C) X.**

P/Ns are without gear boxes : P1V-M020B*xxx, P1V-M040B*xxx, P1V-M060B*xxx, P1V-M090B*xxx, P1 \. W. \B*xxx And P/Ns with gear boxes are : P1V-M020C*xxx, P1V-M040C*xxx, P1V-M060C*xxx, P1V-M090C*xxx, 1 M120C*xxx; * for internal vanes option 0 or Z, xxx for speed range With *: for internal vanes option 0 or Z, xxx: for speed range

P1V-M is designed for utilization in applications falling under the scope of the ATEX 94/S⁺=C. These products are designed and manufactured in compliance with following elements:

- EN 1127-1:2007 Explosive atmospheres Explosion prevention and provertics Part 1: Basic concepts and methodology
- EN 13463-1:2009 Non electrical equipment for use in potentially 32, Vc ** e atmospheres Part 1: Basic method and requirements
- EN 13463-5 Non-electrical equipment intended for use in price, ally explosive atmospheres Part 5: Protection by constructional safety 'c'

As manufacturer of the partly completed machine ve teclare that:

- The specified Air motors correspondent to the listed essential requirements of the EC Machinery Directive 2006/42/EC
- The relevant technical docum, ntauon is complied in accordance with part B of Annex VII
- The relevant technical documentation in accordance with part B of Annex VII will be transmitted in response to a reasonable reque the the time authorities

Product: Air motor 1V- 1 Jeries Directives	Date	Applied and fulfilled essential requirements
2006/42/7.	2006-06	1.1.2, 1.1.5, 1.3.4, 1.5.3, 1.7.3, 1.7.4
St	Date 2011-03	Remark Partly fulfilled

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporates has been declared in conformity with the provisions of the Directive 2006/42/EG, were appropriated.

Sticker

Additional Information This coverage could only be referred to as long as operations needed for final assembling and starting up of theses products comply with standards relating to the above mentioned directive. Each time this will be required for compliance purpose, the user will have to apply for a complete coverage of the final assembled system according to the above mentioned directive and relating standards

Filderstadt, Germany June 2014

Ing. Franck Roussillon European Product Manager Actuators Business Unit, Pneumatic Division Europe

P1V-M ATEX CE Edition 01





PDE/Ulricehamn

EC Declaration of Conformity

We, Parker Hannifin AB Pneumatic Division P.O. Box 110 S-523 23 ULRICEHAMN Sweden

hereby declare that the VDMA cylinder P1D-S Standard* range is compatible for use in explosive atmospere Ex II 2 GD c T4 T120°C.

All models from range, Pneumatic cylinder ISO/VDMA P1D-S*, bore 32-125 mm. P1D-S032MS-XXXX P1D-S040MS-XXXX P1D-S050MS-XXXX P1D-S063MS-XXXX P1D-S080MS-XXXX P1D-S100MS-XXXX P1D-S125MS-XXXX XXX= All strokes

*Without metal scraper ring

P1D-S are designed for utilization in applications falling under the scope of the Atex directive 94/9/EC. These products are designed and manufactured in compliance with the following elements: *EN 13463-1: 2001;* Non-electrical equipment for potentially explosive atmosperes – Part 1: Basic method and requirements.

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EN 13463-5: 2002 Non-electrical equipement intended for use in potentially explosive atmospheres – Part 5: Protection by constructional safety.

EN 983: Safety of machinery Safety of requirements for fluid power systems and their components – Pneumatics.

The P1D complies with the current ISO 69431, ISO 15552, VDMA 24562 and AFNOR installation dimension standards

Parker Hannifin AB has been certified under the ISO 9001 QA standard since 1994.

Additional information:

This coverage could only be referred to as long as operations needed for final-assembling and starting up of theses products comply with standards relating to the above mentioned directive. Each time this will be required for compliance purpose, the user will have to apply for a complete coverage of the final assembled system according to the above mentioned directives and relating standards.

Sweden Issued at Ulricehamn December 22, 2004

keissan

Inge Melkersson Head of Design Department



((Ex)

Safety instructions for the P1D-S cylinder with accessories Supplementary safety instructions for P1D-S cylinders installed in Ex-areas

Serious, even fatal, damage or injury may be caused by the hot moving parts of the P1D cylinders in the presence of explosive gas mixtures and concentrations of dust.

All installation, connection, commissioning, servicing and repair work on P1D cylinders must be carried out by qualified personnel taking account of the following :

- These instructions.
- Markings on the cylinder.
- All other planning documents, commissioning instructions and connection diagrams associated with the application.
- Provisions and requirements specific to the application.
- National/international regulations (explosion protection, safety and accident prevention).

Real life applications

P1D cylinders are designed to provide linear movement in industrial applications, and should only be used in accordance with the instructions in the technical specifications in the catalogue, and within the operating range indicated on the rating plate. The cylinders meet the applicable standards and requirements of directive 94/9/EC (ATEX).

The cylinders must not be used underground in mines susceptible to firedamp and/or flammable dusts. The cylinders are intended for use in areas in which explosive atmospheres caused by gases, vapours or mists of flammable liquids, or air/dust mixtures may be expected to occur during normal use (infrequently).

Checklist

Before using the cylinders in an Ex-area, you should check the following:

Do the specifications of the P1D-S cylinder match the Ex-classification of the area of use in accordance with directive 94/9/EC (previously ATEX 100a)?

- Equipment group.
- Ex-equipment category.
- Ex-zone.
- Temperature class.
- Max. surface temperature.
- 1. When installing the P1D-S cylinder, is it certain that there is no potentially explosive atmosphere, oil, acids, gases, vapours or radiation?
- 2. Is the ambient temperature as specified in the technical data in the catalogue at all times?
- 3. Is it certain that the P1D-S cylinder is adequately ventilated and that no forbidden additional heat is added?
- 4. Are all the driven mechanical components ATEX certified?
- 5. Check that the P1D-S cylinder is safely earthed.
- 6. Check that the P1D-S cylinder is supplied with compressed air. Explosive gas mixtures must not be used for driving the cylinder.
- 7. Check that the P1D-S cylinder is not equipped with a metal scraper ring (special version).

Installation requirements in Ex-areas

- The temperature of the supply air must not exceed the ambient temperature.
- The P1D-S cylinder may be installed in any position.
- An air treatment unit must be attached to the inlet of the P1D-S cylinder.
- The P1D-S cylinder must be connected to earth at all times, through its support, a metallic tube or separate conductor.
- The outlet of the P1D-S cylinder must not open within an Ex-area, but must be passed to the silencer or, preferably, removed and released outside the Ex-area.
- The P1D-S cylinder may only drive units that are ATEX certified.
- Ensure that the P1D-S cylinder is not exposed to forces greater than those permitted in accordance with the catalogue.
- The P1D-S cylinder must be supplied with compressed air. Explosive gas mixtures must not be used.
- P1D-S cylinders with metal scraper rings must not be used in Exareas.

Inspecting cylinders during operation

The P1D cylinder must be kept clean on the outside, and a layer of dust/dirt thicker than 1 mm must never be allowed to form. Strong solvents should not be used for cleaning, because they can cause the seal (material PUR) around the piston rod to swell, potentially increasing the temperature. Inspect and verify that the cylinder, with attachments, compressed air fittings, hoses, tubes, etc. meet the standards of "safe" installation.

Marking of cylinder P1D-S Standard (P1D-S***MS-****)



- **C C**ommunauté **E**uropéenne = EU
 - CE on the product shows that Parker Hannifin products meet one or more EU directives.
- Ex means that this product is intended for use in potentially explosive atmospheres.
- Stands for the equipment group (I = mines and II = other hazardous areas).
- 2GD Stands for equipment category.

2G means the equipment can be used in zones 1 and 2 where there is a risk involving gases, vapours or mists of combustible liquids and **2D** in zones 21 and 22 where there is a risk involving dusts. **2GD** Means the equipment can be used in zones 1, 2, 21 and 22.

- c Safe design (EN 13463-5).
- T4 If equipment is in temperature class T4, the maximum surface temperature must not exceed 135 °C. (To guarantee this, the product has been tested to ensure that the maximum is 130 °C. This provides a safety margin of 5 °K).
- **120 °C** Maximum permitted surface temperature on P1D-S cylinder in atmospheres containing potentially explosive dust.

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Safety instructions for the P1D-T cylinder with accessories

Supplementary safety instructions for installation of ATEX certified cylinders.

The safety instructions in this document are valid for the ATEX certified P1D-T cylinders, bore 160 - 320mm, as per below with reference to the order code key in the product catalogue.

P1D-T***MS-****-EXNN

All strokes in the range 50 - 1000mm

Serious, even fatal, damage or injury may be caused by the hot moving parts of the P1D-T cylinders in the presence of explosive gas mixtures and concentrations of dust.

All installation, connection, commissioning, servicing and repair work on P1D-T cylinders must be carried out by qualified personnel taking account of the following

- These instructions
- Markings on the cylinder
- All other planning documents, commissioning instructions and connection diagrams associated with the application.
- Provisions and requirements specific to the application
- National/international regulations (explosion protection, safety and accident prevention)

Real life applications

P1D-T cylinders are designed to provide linear movement in industrial applications, and should only be used in accordance with the instructions in the technical specifications in the catalogue, and within the operating range indicated on the rating plate.

The cylinders meet the applicable standards and requirements of directive 94/9/EC (ATEX)

The cylinders must not be used underground in mines susceptible to firedamp and/or flammable dusts. The cylinders are intended for use in areas in which explosive atmospheres caused by gases, vapours or mists of flammable liquids, or air/dust mixtures may be expected to occur during normal use (infrequently)

Checklist

Before using the cylinders in an Ex-area, you should check the following:

Do the specifications of the P1D-T cylinder match the Ex-classification of the area of use in accordance with directive 94/9/EC (previously ATEX 100a)

- Equipment group
- Ex-equipment category
- Ex-zone
- Temperature class
- Max. surface temperature
- 1. When installing the P1D-T cylinder, is it certain that there is no potentially explosive atmosphere, oil, acids, gases, vapours or radiation?
- 2. Is the ambient temperature as specified in the technical data in the catalogue at all times?
- 3. Is it certain that the P1D-T cylinder is adequately ventilated and that no forbidden additional heat is added?
- 4. Are all the driven mechanical components ATEX certified?
- 5. Check that the P1D-T cylinder is safely earthed.
- Check that the P1D-T cylinder is supplied with compressed air. Explosive gas mixtures must not be used for driving the cylinder.
- Check that the P1D-T cylinder is not equipped with a metal scraper ring (special version).

Installation requirements in Ex-areas

- The temperature of the supply air must not exceed the ambient temperature.
- The P1D-T cylinder may be installed in any position.
- The P1D-T cylinder must not be installed where there is a risk of mechanical contact with any surrounding part or component.
- An air treatment unit must be attached to the inlet of the P1D-T cylinder.
- The P1D-T cylinder must be connected to earth at all times, through its support, a metallic tube or separate conductor.
- The outlet of the P1D-T cylinder must not be open within an Exarea, but must be connected to the silencer or, preferably, piped and released outside the Ex-area.
- The P1D-T cylinder may only drive units that are ATEX certified.
- Ensure that the P1D-T cylinder is not exposed to forces greater than those permitted in accordance with the catalogue
- The P1D-T cylinder must be supplied with compressed air. Explosive gas mixtures must not be used
- P1D-T cylinders with metal scraper rings must not be used in Ex-areas

Inspecting cylinders during operation

The P1D-T cylinder must be kept clean on the outside, and a layer of dust/dirt thicker than 1 mm must never be allowed to form. Inspect and verify that the cylinder, with attachments, compressed air fittings, hoses, tubes, etc. meet the standards of "safe" installation.

Spare parts

Only spare parts, kits etc. supplied by Parker Hannifin may be used for repair and maintenance of the P1D-T cylinders.

Marking of ATEX certified P1D-T cylinders

The ATEX certified P1D-T cylinders, bore 160 - 320mm, as per below with reference to the order code key in the product catalogue have an ATEX certification marking as shown further below.

P1D-T***MS-****-EXNN

All strokes in the range 50 - 1000mm



Communauté Européenne = EU

CE on the product shows that Parker Hannifin products meet one or more EU directives



Ex means that this product is intended for use in potentially explosive atmospheres



Stands for the equipment group (I = mines and II = other hazardous areas)

2GD Stands for equipment category 2G means the equipment can be used in zones 1 and 2 where there is a risk involving gases, vapours or mists of combustible liquids and 2D in zones 21 and 22 where there is a risk involving dusts. 2GD Means the equipment can be used in zones 1, 2, 21 and 22.

- c Safe design (prEN 13463-5)
- T4 If equipment is in temperature class T4, the maximum surface temperature must not exceed 135 °C. (To guarantee this, the product has been tested to ensure that the maximum is 130 °C. This provides a safety margin of 5 °K.)
- **120 °C** Maximum permitted surface temperature on P1D-S cylinder in atmospheres containing potentially explosive dusts.



Supplementary safety instructions for P8S- GPFLX/EX sensors installed in Ex-areas

Serious, even fatal, damage or injury may be caused by the hot moving parts of the P1D cylinders in the presence of explosive gas mixtures and concentrations of dust.

Instructions for use

Safety instructions

- Cylinder sensor ATEX classed for category II3G and II3D.
- Ambient temperature Ta = -20 °C to +45 °C.
- Temperature class T4 (gas), or max. surface temperature of T = 135 $^\circ C$ (dust).
- Protection class IP67.
- Read installation instructions before startup.
- Installation, connection and commissioning must be carried out by trained personnel.

Applications

- This sensor is designed for use in the T-groove of cylinders, and detects the magnetic field in potentially explosive areas. The sensor can only be installed in the T-groove of these cylinders.
- The sensor may also be installed on round cylinders by means of the following attachments:

P8S-TMC01 Suitable for P1S and P1A diameter 10 - 25 mm **P8S-TMC02** Suitable for P1S diameter 32 - 63 mm

P8S-TMC03 Suitable for P1S diameter 80 - 125 mm.

The following data applies to these attachments :

- Ambient temperature Ta = 0 °C to 45 °C
- Low energy absorption to EN 50 021.
- The sensor may also be installed on tie-rod cylinders or profile cylinders by means of this attachment :

P8S-TMAOX Suitable for P1D-T diameter 32 - 125 mm, P1E-T diameter 160 – 200 mm and C41 diameter 160 – 200 mm.

Installation

General : The sensor must be protected from UV radiation. The cable must be installed such that it is protected from external influences, for example it may be necessary to attach an external strain relief to the cable.

Technical data for sensor

Operating voltage Ub = 18 to 30 V DCMax. load current Ia = 70 mAAmbient temperature: -20 °C to 45 °C

Commissioning

When connecting the sensor to a power source, please pay attention to the following

a) the load data (operating voltage, continuous load current)b) the wiring diagram for the sensor.

Maintenance

Our P8S-GPFLX/EX cylinder sensor is maintenance free, but the cable connections should be checked at regular intervals.

The sensor must be protected from UV radiation. The sensor must be kept clean on the outside, and a layer of dirt thicker than 1 mm must never be allowed to form. Strong solvents should not be used for cleaning as they may damage the sensor.

P8S-GPFLX/EX cylinder sensor

C € 💿 II 3G EEx nA II T4X II 3D T135 °C IP67

- **Ce Communatuté Européenne = EU**
- CE on the product shows that Parker Hannifin products meet one or more EU directives.
- **Ex** means that this product is intended for use in potentially explosive atmospheres.
- II Stands for the equipment group (I = mines and II = other hazardous areas).
- 3G Stands for the equipment category.
 3G means the equipment can be used in zone 2 where there is a risk involving gases, vapours or mists of combustible liquids.
- **EEx** means that this is an electrical product intended for use in Ex-areas.
- nA II n Not ignitable to EN50021, A Explosion group tested with acetone, ethanol, toluene and xylene; II Not for use in the mining industry.
- T4 X If equipment is in temperature class T4, the maximum surface temperature must not exceed 135 °C. (To guarantee this, the product has been tested to ensure that the maximum is 130 °C. This provides a safety margin of 5 °K). X Must be installed in accordance with the installation manual.
- **3D** Stands for equipment category **3D** in zone 22 where there is a risk involving dust.
- **135 °C** Maximum permitted surface temperature on the motor in atmospheres containing potentially explosive dust.
- IP67 Satisfies protection class IP67.

Components such as cylinder attachments, tube fittings, tubes, etc. Components

Parker Hannifin guarantees that our cylinder attachments, tube fittings, tubes, etc. are not subject to the provisions of the ATEX directive because they have no proper source of inflamation, nor an own ignition source.

A component means any item essential to the safe functioning of equipment and protective systems but with no autonomous function. Consequently, they are not marked and not any specific ATEX document will be added.

Examples :

- Tubes
- Fittings
- Fixings
- Mounting brackets
- Panels...

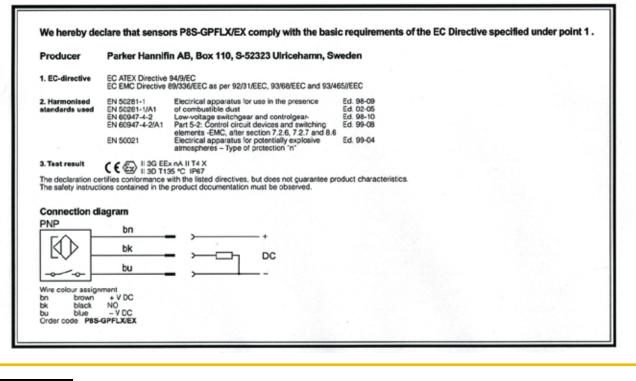


P1D sensors











Instruction GB ISOMAX VALVES CE E Parker	Instruction FR DISTRIBUTEURS ISOMAX CE E Parker
1 - SPECIFICATIONS Size 1 Size 2 Size 3	1 - SPECIFICATIONS Taille 1 Taille 2 Taille 3
Nax Operating Frequency 10 Hz 5 Hz 4 Hz Operating temperature (Ta) -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -10°C to +60°C (14°F to 140°F) - Plaud temperature -13 to 145 psi - - Atronotition -13 to 145 psi - - - S0 Estable 5/3 Pressure exhausted neutral - - - S2 Sping-return monostable Pneumatic or electric piloting mode - - DX : 3 Nn, DX : 4 Nn, DX : 4 Nn, DX : 4 Nn, DX : 3 Nn - Elec	Image: Second end service maximum 10 Hz 5 Hz 4 Hz Température de service (Ta) -10°C à + 60°C -10°C à + 60°C Température de service 2 à 10 bar -10°C à + 60°C Pression de service 2 à 10 bar -10°C à + 60°C > alimentation enterne 2 à 10 bar -10°C à + 60°C > alimentation enterne -0.9 à 10 bar -10°C à + 60°C Pression de service -0.9 à 10 bar -0.9 à 10 bar Fitude admissible et quelité ISO 8573-1 : - Air ou gaz neutre fittle dasse 5, - Air sec ou gaz neutre fittle dasse 4 Position de fonctionnement Indfférentie Sz Bistable à Cde prioritaire par 14 5/3 Centre ouvent Sz Bistable à Cde prioritaire par 14 5/3 Centre pression Sz Monostable à rappel ressort Plotage pneuralique ou électrique 3 - INSTALLATION Plotage information du carter Nontinge sur embase selon plan de pose DX1 : 3 Mm, DX2 : 4 Nm, DX3 : 8 Nm Raccordement électrique teme de protection du carter par vis étier M5x10 Raccordement électrique à la terre sélectour de jalotage interme ou externe Sélecton de la pression de plotage interme ou externe par positionnement du sélecteur de plotage
Mounting interface for the electric operator CNOMO 06-05-10 Mounting with one of the following pilot operators: EV300200. EV3001200. EV300200. 1EV0'310, 1EV1'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV1'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310 equipped with an ATEX solenoid type EV30.200, 1EV0'310, 1EV3'310 edsfore maintenance on the product, shop the air and ensure that pipes are exhausted. Then prodect. The replacement of the product or of one of its parts must be done with a product or a part of the series ATEX category. Product cleaning should be done by a method complying with the specifications of the ATEX zone, preferably by aspiration and/or utilization of antistatic products. The depoint of dust should not exceed 5 mm. The installation and maintenance of the product must be done by qualified personnel.	Interface pour l'opérateur électrique
A - ATEX CLASSIFICATION E Il 2 GD c 85 °C Specific logo for safety in hazardous atmospheres II Destination: Group II: Atmospheres other than in mines I Destination: Group II: Atmospheres other than in mines C Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones 1 and 21 GD Gas or Dust atmospheres c Protuse in zones defined as: (Ta) of the element having the lowest limit f this one is <60°C, G0°C if elements other than the valve have a (Ta) > 60°C EC DECLARATION OF SONFORMITY	
We, Parker Hannifin France S.A.S. Etablissement d'Evreux Rue H. Becquerel – BP 3124 27031 EVREUX CEDEX – France	Nous, Parker Hannifin France S.A.S. Etablissement d'Evreux Rue H. Becquerel – BP 3124 27031 EVREUX CEDEX – France
hereby declare that the following ISOMAX pneumatic valves :	déclarons que les distributeurs pneumatiques ISOMAX référencés :
 DX1, DX2, DX3, followed by a "-EX" suffix, 	 DX1, DX2, DX3, suivis du suffixe "-EX",
are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22). These products are designed and manufactured in compliance with the European Directive: 94/9/EC, March 1994, "ATEX". The present declaration is based on the compliance with the following standards: Standard EN 13463-1, 2001 and AC:2002, Non-electrical equipment for potentially explosive atmospheres. Part 1: Basic methods and requirements. Standard EN 13463-5, 2003, Non-electrical equipment intended for use in potentially explosive atmospheres. Part 5: Protection by constructional safety "c".	sont utilisables en atmosphère explosible II 2 GD (zones 1,2 et 21,22). Ces produits sont construits conformément aux dispositions de la directive européenne : - 94/9/CE, mars 1994, "ATEX". La présente déclaration est établie sur la base de la conformité aux normes suivantes : - norme EN 13463-1, 2001 et AC:2002, Matériel non électrique pour utilisation en atmosphères explosibles. Partie 1 : prescriptions et méthodes de base, - norme EN 13463-5, 2003, Appareils non électrique destinés à être utilisés en atmosphères explosibles. Partie 5: Protection par sécurité de construction "c".
Type examination certificate: LCIE 04 ATEX 6165X	Attestation d'examen de type : LCIE 04 ATEX 6165X
Delivered by: LCIE	Délivrée par : LCIE
Additional information: These products are designed for utilization in applications falling under the scope of the ATEX Directive 94/9/EC. This coverage could only be referred to as long as operations required for the installation and the maintenance of these products are complying with related standards. The user will have to comply with procedures for getting an approval of the final assembled system according to related regulations.	Information complémentaire : La conception de ces produits permet leur utilisation dans un environnement soumis à l'application de la Directive ATEX 94/9/CE sous réserve que les opérations nécessaires à leur installation et à leur maintenance soient effectuées en conformité avec les dispositions des normes en vigueur. L'utilisateur prendra en charge la mise en conformité de l'installation finale conformément à la règlementation en vigueur.
Issued at Evreux Date : January 24 th , 2007	Fait à Evreux Date : 24 janvier 2007
CE marked: 2004	Jean-François VISTE Date d'application marquage CE : 2004 Responsable ATEX



	Instruction DISTRIBUTEURS SANS EMBASE			
Instruction GB VALVE WITHOUT SUBBASE CE E. Parker	Instruction FR DISTRIBUTEURS SANS EMBASE CE E. Parker			
1 - SPECIFICATIONS • Max Operating Frequency	SPECIFICATIONS Friguence de service maxi			
 Operating temperature (Ta)	 Température de service (Ta)			
Operating pressure	Pression de service			
Internal pressure 2 to 10 bar (3 to 10 for monostable valve electrically actuated) Air condition	 ➢ alimentation interne 2 à 10 bar (3 à 10 bar pour commande électrique d'un monostable) Fleide admissible et qualité ISO 8573-1 : - Air ou gaz neutre filtré classe 5, - Air se u gaz neutre filtré classe 4 			
Protection level : IP65	Degré de protection : IP65 Selon ISO 60529, étanchéité à la poussière Indifférente			
2 - FUNCTIONS	2 - FONCTIONS			
5/2 Bistable 5/3 Pressure exhausted neutral (COE and COP) 5/2 Air return monostable 5/3 Pressure held neutral	5/2 Bistable 5/3 Centre ouvert (COE et COP) 5/2 Monostable différentiel 5/3 Centre fermé			
5/2 Spring return monostable With a pneumatical or electric pilot 3 – INSTALLATION	5/2 Monostable à rappel ressort Pilotage pneumatique ou électrique 3 – INSTALLATION			
 Mounting according to Parker technical leaflet. 	 Montage seion description du catalogue PARKER. 			
Earth connection is recommended for mounting rai. Maxi number of valve per Island : 6 (to avoid electrostatic load)	 Mise à la terre recommanée du rai supportant les produits. Nombre maximal de distributeurs per îlot: 6 (Évitement de l'appartion de la charge électrostatique) 			
With a pneumatical pillot : • PVA-P111, PVA-P115 connectors for PVL-C1.6.	Avec pilotage pneumatique : • Connecteurs PVA-P111, PVA-P115 pour PVL-C16.			
 PVA-P121, PVA-P122, PVA-P125 connectors for PVL-C14. 	 Connecteurs PVA-P121, PVA-P122, PVA-P125 pour PVL-C14 			
 Maxi torque on fittings: 1/8": 10Nm, 1/4": 20 Nm, 3/8": 55 Nm With an electric pilot: 	 Couples de serrage maximal des raccords : 1/8" : 10Nm, 1/4" : 20 Nm . 3/8" : 55 Nm Avec pillotage électrique ; 			
 Mounting with ATEX solenoid PVA-F102BX., and PVA-F102EX., type Head modules, tail air feed modules and latermediary air supply modules : 	 Installation avec une bobine ATEX type PVA-F102EX et PVA-F102EX Extrémités d'alimentation et modules intermédiaires ; 			
PVL-C1713, PVL-C1723, PVL-C1819, PVL-C1829, PVU-LC8119, PVU-LCC119	PVL-C1713, PVL-C1723, PVL-C1819, PVL-C1829, PVU-LC8119, PVU-LCC119			
 WARNING Conditions for installing the product have to comply with specifications mentioned in chapters 1 and 3. 	ATTENTION • Le produit doit être installé dans un anvironnement conforme aux spécifications des chapitres 1 et 3.			
 Before maintenance on the product, stop the air and ensure that pipes are exhausted. Then proceed. 	 Avant toute intervention sur le produit, couper l'air comprimé. S'assurer que le circuit est purgé puis procéder à l'intervention. 			
 The replacement of the product or of one of its parts must be done with a product or a part of the same ATEX category. 	· Le remplacement du produit ou de l'un de ses composants doit être effectué avec un produit ou un composant de			
 Product cleaning should be done by a method complying with the specifications of the ATEX zone, preferably by asgiration and/or utilization of antistatic products. The deposit of dust should not exceed 5 mm. 	mime catégorie ATEX. Le nettoyage des produits sera réalisé selon une méthode respectant les spécificités ATEX de l'installation, de			
 The installation and maintenance of the product must be done by qualified personnel. 	préférence par aspiration el/ou par utilisation de produits antistatiques. Le dépôt de poussière ne doit pas excéder 5 mm.			
	L'installation et la maintenance du produit doivent être effectuées par du personnel qualifié.			
4 - ATEX CLASSIFICATION $\langle \mathcal{E}_{s} \rangle$ II 2 GD c 135 °C	4- CLASSIFICATION ATEX (E,) II 2 GD c 135 °C			
Specific logo for safety in hazardous atmospheres	(Ex) Logo de pléfence pour la sécurité en atmosphéres explosibles			
II Destination : Group II : Atmospheres other than in mines	Destination: Gryope IJ- Remosphilres de surface			
2 For use in zones 1 and 21	2 Utilidation et zénes 1/et 21			
GD Gas or Dust atmospheres c Protection mode: "e", constructional safety	GD Atmolphens de type gaz ou profisiere Medelde protection : "C"-securité de construction			
135 °C Temperature dass (T4) The maximum ambient temperature (Ta) of the equipment or of the subassembly incorporating PVL-C without subbase	115 * Clabse de tempéndure (T4) La linite de tempéndure ambiante (Ta) de l'équipement ou de l'ensemble incorporant un distributeur sans embase			
valves will be defined as:	type KVL & sera/délibie comme suit :			
 (Ta) of the element having the lowest limit if this one is <60°C, 60°C if elements other than the valve have a (Ta) > 60°C. 	 - (Ta) du corposant ayant la limite la plus faible si celle-ci est < 50°C, - 50°C si les constituants autres que le distributeur ont une (Ta) > 60°C. 			
EC DECLARATION OF CONFORMITY	DECLARATION CE de CONFORMITE			
We, Parker Hannifin France SA(S.	Nous. Parker Hannifin France S.A.S.			
Etablissement d'Evreux	Etablissement d'Evreux			
Rue H. Becquerel – BP 3124 27031 EVREUX CEDEX – France	Rue H. Becquerel – BP 3124 27031 EVREUX CEDEX – France			
hereby declare that	déclarons que les distributeurs sens embase référencés :			
- PVL-C	- PVL-C			
are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22).	sont utilisables en atmosphère explosible II 2 GD (zones 1,2 et 21,22).			
These products are designed and manufactured in compliance with the European Directive:	Ces produits sont construits conformément aux dispositions de la directive européenne :			
 94/9/EC, March 1994, "ATEX". 	 94/9/CE, mars 1994, "ATEX". 			
The present declaration is based on the compliance with the following standards:	La présente déclaration est établie sur la base de la conformité aux normes suivantes :			
 Standard EN 13463-1, 2001 and AC:2002, Non-electrical equipment for potentially explosive atmospheres. Part 1 : Basic method and requirements, 	 norme EN 13463-1, 2001 et AC : 2002, Matériels non électriques pour utilisation en atmosphères explosibles. Partie 1 : Prescriptions et méthode de base, 			
 Standard EN 13463-5, 2003, Non-electrical equipment intended for use in potentially explosive 	 norme EN 13463-5, 2003, Appareils non électriques destinés à être utilisés en atmosphères 			
almospheres. Part 5 : Protection by constructional safety "c".	explosibles. Partie 5 : Protection par sécurité de construction "c".			
Technical file : 1260909 X	Dossier technique : 1260909 X			
Submitted at : LCIE 33 avenue du Général Leclerc, 92260 Fontenay-Aux-Roses	Déposé auprès de : LCIE 33 avenue du Général Leclerc, 92260 Fontenay-Aux-Roses			
Additional information :	Information complementaire :			
These products are designed for utilization in applications failing under the scope of the ATEX Directive 94/9EC. This coverage could only be referred to as long as operations required for the installation and the maintenance of these	La conception de ces produits permet leur utilization dans un environnement soumis à l'application de la Directive ATEX 94/9/CE sous réserve que les opérations nécessaires à leur installation et à leur maintenance solent			
products are complying with related standards.	effectuées en conformité avec les dispositions des normes en vigueur.			
The user will have to comply with procedures for getting an approval of the final assembled system according to related regulations.	L'utilisateur prendra en charge la mise en conformité de l'installation finale conformément à la réglementation en végueur.			
Issued at Evreux Date : January 24 th , 2007	Falt à Evreux Date : 24 janvier 2007			
	<i>m</i> /			
	XX.			
CE marked : 2006	Date d'application marquage CE : 2006 Jean-François Viste			
	Responsable ATEX			



Instruction GB		OPERATOR 2BX and P2FS	CE 🕗 – Parker	Instruction de service	FR		ROVANNE 02BX et P2FS	CE	E. Parke
1 - SPECIFICATIONS				1 - SPECIF	CATIONS				
Operating pressure		0 to 10 bar (0 to 145 psi)		Pression	de service		0 à 10 bar		
Operating temperature (Air condition		-15"C to +40"C (5"F to + ISO 8573-1 - Filtered a)	-15°C à +40°C ISO 8573-1 : - Air ou g	az neutre filtré clas	ise 5
			r inert gas class 4				- Air sec o PVA-F102B. : 24 Vdc ;	ou gaz neutre clas	
Operating voltage Voltage Tolerance		-10 % to +10 %					-10% a +10%		
		PVA-F102B. : 24 Vdc ; Polarity insensitive	P2FS. : 0,125 A				PVA-F102B. : 24 Vdc : Non polarises	P2FS. : 0,125 A	
Polarity Consumption		6 W		 Puíssano 	consommée		6 W		
Duty factor Protection degree		100% to 40°C (104°F) IP65 (EN 60529), dustpr	wal.	 Taux de c Indice de 	harge		100% à 49°C IP65 (EN 60529), étanc	héilé à la coussiér	e
 Operating position 		Any position		 Position d 	e fonctionnement		Indifférente		
 Protection against mech Association with PRS-0/ 	anical shocks 10 Subbase	With an envelope withsta Stacked on PZU-A12 or				mécaniques RS-D10	Par enveloppe résistant Montée sur PZU-A12 c		oures.
2-FUNCTIONS				2 -FONCTI		ide.			
Pre-wired 3/2 NC Operat 3 – INSTALLATION	lor.			3 - INSTAL	ne 3/2 NF précéb LATION	RU.			
Dimensions of mounting		22x30 mm		Dimensio	ns de l'interface m	écarique	22x30 mm		
 Sorew for mounting the a Max torque for the armai 		M12 x 0,5mm 6 Nm maxi					M12 x 0,5mm 6 Nm maxi		
	abinet	 SAREL : SPACIAL 3D, RITTAL : type KEL EX 				en enveloppe	 - coffret SAREL : SPAC - coffret RITTAL : type I 		
Maximum number of ope		4 in an envelope of 8 dm	3		aximum d'électro		4 en service continu da	ns une enveloppe	de 8 dm ³
 Electrical connection by operator 		2P+E, 3 x Ø 0,75 mm² ((elow-green for Earth)			r cordon pré-câblé	2P+T, 3 x Ø 0,75 mm²	(fil jaune-vert pour	la terre)
Connector		Not removable		 Connecte 	ur		Non débrochable 0.3 à 0.5 Nm		
 Torque for fastening the WARNING 	connector	0,3 to 0,5 Nm		Couple de ATTENTIO		cteur	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
· Conditions for installing	the operator must comply	with specifications mentione	d in chapters 1 and 3. The perma-	 Le produi 	doit être installé d		conforme aux spécificatio		
			described in EN 60079-0 standard exhaust by either funneling or with				n des types de protection o ée IP40 ou plus nécessite o		
a muttler.				Féchappe	ment canalisée ou	par silencieux.	oncordance de la tension (
 Before maintenance operation 	rations, stop the air and e		hat pipes are exhausted. Then	électrique					
	nd proceed. Check the sla product or of one of its part		uctor a part of the same ATEX.	est purgé	puis débrancher li	a câble électrique. Véri			
category.			· · · · · · · · · · · · · · · · · · ·	Le rempla	cement du produit	ou de l'un de ses com	posants doit être effectué		
		The deposit of dust should n	e ATEX zone, preferably by ot exceed 5 mm.	 Les opéra 	tions de nettoyage	serool realises confr	ormément aux spécificités tationus. Le dépôt de pour	ATEX de l'Installat	ion, de préférence
 The installation and ma 	aintenance operations m	ust be done by qualified p	ersonnel.	 par aspira L'installa 	tion et/ou par utili tion et les opérat	ation de produits antis iens de maintenance	taliques. Le dépôt de pous doivent être effectuées p	isière ne doit pas (par du personnel	oucéder 5 mm. qualifié.
4-ATEX CLASSIFICA	TION E.				FICATION AT	EX E			
	<u>e</u> /1		x tD A21 T135°C IP65				2 G D Ex c II T4 nosphères explosibles	Ex tD A21	T135°C IP65
E Specific logo	for safety in hazardous atr	nosprieres	\sim	(ε.) (]					
	Group II : Atmospheres off	her than in mines			Destingtion Grou	pe II : Atmosphères de	e surface		
GD Ges or Dust a	tmospheres	~ /	$\neg \uparrow \land \dashv \dashv$	(GO)	Atmosphères de l	ype gaz ou poussière			
	vith CENELEC standards de : "e" increased safety	\rightarrow	> \		Conformité aux n Mode de protectio	mes CENELEC	alée		
T4 Temperature	ciass : 135 °C	GZ		T4	Classe de tempér	ature : 135°C		saussitess sumb	utibles asso 54
T 135 °C Maximum suf	face temperature (for deat	closures in the presence of a v atmosphere)		T 135 °C	Température max	imale de surface (pour	enveloppe en présence de atmosphère poussièreuse)	
The maximum ambient tempe according to chapter 1.	rature (Ta) of the subasse	mbly equidced with the pilo	operato: will be 40°C (104°F)	La températi chapitre 1.	ve ambiante maxi	male (Ta) du sous-ens	emble équipé de l'électrov	anne sera de 40°0	C conformément au
			"						
EC	DECLARATION	N of CONFORMI			DECLA	RATION CE	de CONFORMI	TE CC	· (E.)
									'tonand'
	Iannifin France S.A.S sment d'Evreux	k.		Nous,		nifin France S.A.S nt d'Evreux	L		
	Becquerel - BP 3124					querel - BP 3124			
27031 E	VREUX CEDEX - Fran	nce			27031 EVR	EUX CEDEX – Fran	108		
hereby declare that the	following electro-prieu	matic valves:		dictarons que les distributeurs électro-pneumstigues : - type PVA-F102BX et P2FS					
- type PVA-F102	2BX and P2FS			- typ	e PVA-F102B	X et P2FS			
		re II 2 GD (zones 1,2 au		sont utilisables en atmosphère explosible II 2 GD (zones 1, 2 et 21, 22).					
		red in compliance with th	e European directive:	Ces produits sont construits conformément aux dispositions de la directive européenne : 94/9/CE, mars 1994, "ATEX"					
 94/9/EC, March 		fance with the fall	standarde				ana da la contormiti	IN DODDAY AND	alas :
		sliance with the following I apparatus for explosive		La présente déclaration est effectuée sur la base de la conformité aux normes suivantes : - norme EN 60079-0, 2006, matériel électrique pour atmosphéres explosives gazeuses.					
Part 0 : Genera		opportant for experience	and an interpreter	Partie 0 : Règles générales.					
		apparatus for explosive	gas atmospheres.	 norme EN 60079-7, 2003, matériel électrique pour atmosphères explosives gazeuses. Partie 7 : Sécurité augmentée "e". 					
Part 7 : Increas - standard EN 61		apparatus for use in the	presence of combustible dust.	- nor	me EN 61241-1	, 2006, matériels él	lectriques pour utilisatio	on en présence	de poussières
	ion by enclosures "tD".					ie 1 : Protection par			
EC certificate of conform					de conformité (ATEX 6278X		
	Quality assurance certificate: LCIE 03 ATEX Q 8037		Certificat d'assurance qualité : LCIE 03 ATEX Q 8037 Délivrés par : LCIE – id. 0081						
Delivered by:	LCIE – id. (0001				LOIE -	0.0001		
Additional information: These products are design	wed for utilization in anoth	cations failing under the en	pe of the ATEX Directive 949/EC.		complémentaire : on de ces produits	permet leur utilisation	dans un environnement	soumis à l'annéra	tion de la Directive
This coverage could only b	be referred to as long as	operations required for the	installation and the maintenance of	ATEX 94/9/	CE sous réserve	que les opérations i	nécessaires à ieur instel	lation et à leur n	naintenance soleri
these products are comply The user will have to com			nal assembled system according to			les dispositions des no e la mise en conform	nmes en vigueur. bé de l'installation finale c	onformément à la	réglementation en
related regulations.				vigueur.					-
Issued a	at Evneux	Date	: January 31*, 2008		Fait à Ev	reux	De	te : 31 janvier 2	008
								Q1	
								M	
								ean-François Vi	cla
CE marked: 2006				Date d'appl	ication marquag	e CE : 2006		ean-François Vi esponsable AT	



	(B) 30mm CNOMO Operator System Type P2FSB.25X and P2FSB.35X Solenoid type P2FSB.42EX and P2FSB.43EX	histución (FR) Telectrovanie CNOMO 30mm Type P2FSB.2EX et P2FSB.3EX Bobine type P2FSB.4EX (CE)
	FICATIONS Solenoid: P2FSB.A2EX P2FSB.A2EX P2FSB.A3EX	1-SPECIFICATIONS Botine: P2FSB.A2EX P2FSB.A2EX P2FSB.A3EX
	ing temperature (Ta)	 Température de service (Ta)
Votage	e Tolerance	Totérances de tension
	Nption	Puissance consommée
ATEX	emporature class	Classe detempérature ATEX
	Assembly with operators:	Assemblage week to opérateurs :
Assoce Operate	ation with operators types	Association avec les opérateurs
IP love		 Indice de protection IP66 (EN 60529)
Operati	ing position Any position ing pressure	Posision de fonctionnensent
	dition	 Fluide admissible et qualté
- FUNC	- Dry air or inert gas class 4 CTIONS	- Air sec ou gaz neure classe 4 2 - FONCTIONS
	IO MO Operator System for piloting pneumatic valves. ALLATION	Electrovarne CNOMO 3/2 pour pilotage de distributeurs pneurnatiques 3 – INSTALLATION
	ation with operators see chapter 1	Association avec les opérateurs
Electric	al connection on the equipment	 Raccordement électrique sur l'équipement 3 fils de Ø 0,75mm⁴, 2P+T (aune-vert pour la terre)
	tion of the connector's body to earth optional ing torque on valves	Raccordenient à la terre du corps du connecteur de la bobine
ARNIN		 Couple de sensge sur les distributours
The ins	taliation must be done in compliance with specifications mentioned in chapters 1 and 3. The permanently	 ATTENTION L'installation dot être réalisée dans un environnement conforme aux spécifications des chapitres 1 et 3. L'entrémi
connec	ted cable must be terminated according to one type of protection described in EN 50014 standard.	libre du câble de connexion solidaire doit répondre à l'un des types de protection décrits dans la norme EN 50014
	istallation is done in a cabinet rated IP40 or more, it is necessary to have a provision for exhaust by either Ing or with a muffler.	 Si l'installation est réalisée dans une enveloppe classée IP40 ou plus, il est nécessaire de ménager une trise à l'échappement candisée ou par silencieux.
	energizing, ensure that the voltage of the supply is the same as the voltage marked on the coll.	 Avant mise sous tension, s'assurer de la concordance de latension entre la bobine et l'alimentation dectrique.
	maintenance operations, stop the air and electrical supplies and ensure that the pipes are exhausted. Then nect the 3 wires and proceed.	 Avant toute opération demainterance, couper l'air comprimé et l'alimentation électrique. S'assurer que le circuit est purgé puis décrancher le câble électrique.
The rep	placement of the product or one of its parts must be done with a product or a part having the same ATEX	 Le remplacement du produit complet ou de l'un de ses composants doit être réalisé avec un produit ou un
c ategor Cleanin	ry. ng operations should be done in compliance with the specifications of the ATEX2one, preferably by	 composant de même catégorie ATEX. Les opérations de netroyage seront réalisées conformément aux spécificités ATEX de l'installation, de préférence
aspirati	ion and/or utilization of antistatic products.	par aspiration et/bu par utilisation de produits antistatiques.
	stallation and maintenance operations must be done by qualified personnel.	L'installation et les opérations de maintenance doivent être réalisées par du personnel qualitié.
-AIEA	(CLASSIFICATION and SOLENOID MARKING $\langle \mathcal{E}_x \rangle$ 2 GD Ex mb T(*) IP66 T(**)	4 - CLASSIFICATION ATEX et MARQUAGE BOBINE (E.) 2 GD Exmb T(") P66 T (")
E .>	Specific logo for safety in hazardous atmospheres	Ex Logo de alterence pour la sécurité en atmosphéres explosibiles
0 ./	Group II: Atmospheres dher than in nines	II Destination : Oruge II : Africashères de surface
	For use in zones 1 and 21	2 Ligits ation en zones 1 et 2
0 ×	Gas or Dust Atmospheres Compliance with CENELEC standards	GD Attribupteres de lyde gaz de poussiere az Contoninati aux namilies CENELEC
1	Protection mode: "tri" encapsulation	n Node of plotection : 'm sccapetrage
0	Temperature class: - T5 (100°C) for Ev30 A2EX.	T() (Jasse detempérature : - 15 (100° C) pour EV30.A2EX.
0	- T4 (135°C) for EV30.A2EX. V Alaminum surface temperature : -100°C for EV30.A2EX.	T4 (135°C) pour EV20.A3EX. T (1) Température maximale de surface : -100°C pour EV20.A2EX.
	- 135-CTO EVSLAJEX	- 135°Cpour EV30.43EX.
Macimum • (Ta)	12, for utilisation in zones 1, 2 and 21, 22 for Gas and Due temployness. ration is an equipment: n antiant semperature (1a) of the equipment or of the subastentity incorporating this product: of the element having the lowest likeling tests one to <50° C. c elements other than the sciencid having (1a) > 50° C.	 pour utilisation en zones 1, 2 et 21, 22 pour stmosphères Gaz et Pousière. Incorporation dans un équipement : L'unite de température antibiarte (Ta) de l'équipement ou de l'ensemble incorporant ce produit : (Tb) du comporant systemisalisation (Ta) de l'équipement ou de l'ensemble incorporant ce produit : (Tb) du comporant systemisalisation (Ta) de l'équipement ou de l'ensemble incorporant ce produit : 56°C si les constituants autres que la bébine ont une (Ta) > 60°C.
	EC DECLARATION of CONFORMITY $\langle \overline{\mathcal{E}_{\star}} \rangle$	DECLARATION CE de CONFORMITE $\langle \mathcal{E}_{x} \rangle$
We,	Parker Hanrifin France SA.8.	Neur, Parker Hannifin France 8.A.8.
	Etablissement d'Evroux Rue H. Becquerel – 8P-3124	Etablissement of Evreux Rue H. Becquerel – BP 3124
	27031 EVREUX CEDEX - France	27031 EVREUX CEDEX – France
	clare that the 30mm ATEX sciencids used for driving diectro-pneumatic valves intended for use in explosive	décisions que les boblines ATEX 30mm pour commande de distributeum électro-preumaliques utilisables en
stracspile	colore that the 30mm ATEX sciencids us of for deving electro-pneumatic valves intended for use in explosive res if 20D in zones 1, 2 and 21, 22:	déclarons que les bolises ATEX 30mm pour commande de distributeurs électro-preumaliques utilisables en atmosphèses explosibles # 2 00, en zones 1, 2 et 21, 22 :
ismosphe - R	colore that the 30mm ATEX solenoids used for doving diectro-pneumatic valves intended for use in explosive res if 2 GD in zones 1, 2 and 21, 22: ypes EV30.AZEX, and EV30.A3EX	déclarons que les bablaes ATEX 30mm pour commande de distributeurs électro-preumaliques utilisatées en atmosphères explositées # 2 00, en zones 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX.,
itmosphe - N ine design	schere that the 30mm ATEX sciencids used for driving electro-presentation valves intended for use in explosive vec if 2 GD in zones 1, 2 and 21, 22: ypes EV38.AZEX, and EV38.A3EX ned and manufactured in compliance with the European directive:	declarans que las bobliess ATEX Júnam pour commande de distributeurs électro-preumatiques utilisables en atmosphèxes exploables # 2 GO, en zones 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX., sont construiter conformiement aux dispositions de la directive européenne :
atmosphe - R are design - 9	In the start of	declaranz que los bobliess ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses exploables # 2 00, en zones 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX., sont construiter conformèment aux dispositions de la directive européenne : - 940/CE, mars 1994, "ATEX".
atmosphe - N are design - 9 The prese	In the state of	déclarons que les boblies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèles exploables AT 2 00, en zones 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX., sont construiter conformèment aux dispositions de la directive européenne : - 940/CE, mars 1994, "ATEX". La présente déclaration est élablie sur la base de la conforméé aux nomes suivantes :
atmosphe - N are design - 9 The prese - 5	In the start of	declaranz que los bobliess ATEX 30mm pour commande de distributeurs èlectro-preumatiques utilisables en atmosphèxes exploables # 2 00, en zones 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX., sont construiter conformèment aux dispositions de la directive européenne : - 940/CE, mars 1994, "ATEX".
atmosphe - ۹ ase dasign - 9 The prese - 5 0 - 5	In the solution of the second	 déclarons que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles AT 2 00, en conces 1, 2 et 21, 22 : types EV30.A2EX. et EV30.A3EX., sont construites conformèment aux dispositions de la directive européanne : 940/CE, mors 1994, "ATEX". La présente déclaration est étable sur la base de la conformété aux normes suivantes : norme EN 50014, 1997 et AJ, A2:1999, matériel électrique pour aux osphéres explosibles. Règles générales. norme EN 50019-18, 2004, matériel électrique pour atmosphéres explosibles gaseuses. Parle 18 :
etmosphe - ٩ ane design - 9 The prese - s - 0 - 3 - 5 - - - - - - - - - - - - -	In the second se	 déclaranz que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en almosphèses exploables # 2 00, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX., sont construiter conformèment aux dispositions de la directive européenne : 940/05, mors 1994, "ATEX". La présente déclaration est étable sur la base de la conformé eux normes suivantes : nome EN 50014, 1997 et AJ, A2:1999, matériel decinque pour atmosphéres explosities. Règles générales. nome EN 50079-18, 2004, instériel éles instériels électiques du type de protection par enceptaleg "m". nome EN 50311-1, 1989 et Al 1200, Matériels électiques du type de protection par enceptaleg "m".
atmosphe - ٩ are design - 9 The prese - s - - - - - - - - - - - - -	Indexe that the 30mm ATEX solencids used for deving diedro-presumatic valves intended for use in explosive res if 2 CD in zones 1, 2 and 21, 22: ypes EV38A2EX, and EV38A3EX, ned and manufactured in compliance with the European directive: HAREC, March 1994, "ATEX" interdediaration is based on the compliance with the following elements: tandard EN 50014, 1997 and A1, A2:1999, electrical apparatus for potentially explosive atmospheres. Benerating under 5: 5. tandard EN 60079-15. tandard EN 60079-15.	déclarons que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèse exploitilles # 2 BQ, en zenes 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX., sont construite: conformèment aux dispositions de la directive europèenne : - 948/ICE, mars 1994, "ATEX". L'aprèsente déclaration est établie son la base de la conformité aux nomes suivantes : - nome EN 50014, 1997 et AI ,42:1999, matérial disconque pour atmosphères explosities. Règles générales. - nome EN 50019-18, 2004, matériel électrique pour atmosphères explosities gazeuses. Partie 19 : Construction, essais et marquage dis matériels électriques du type de protection par encepsulage "m".
etmosphe - t are design - 9 The prese - s - s - s - s - s - s - s - s	In the second se	 déclarons que les boblees ATEX 30mm pour commande de distributeurs électro-preumaliques utilisables en atmosphèse exploables AT 2 00, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX., sont construités conformèment aux dispositions de la directive européenne : 946/CE, mors 1994, "ATEX". La présente déclaration est élablie sur la base de la conformité aux normes suivantes : norme EN 50014, 1997 et AJ, A2:1999, matériel directive européenne servicantes : norme EN 50014, 1997 et AJ, A2:1999, matériel directive pour atmosphéres explosibles gazeuses. Partie 18 : Construction, esses et marquage des matériels électiques du type de protection per enceptage m". norme EN 5001-1-1, 1995 et AJ:000, Matériel électrique pour atmosphéres explosibles gazeuses. Partie 18 : Construction, esses et marquage des matériels électiques du type deprotection per enceptage m". norme EN 5001-1-1, 1995 et AJ:000, Matériel électriques protégés par enveloppes - Construction et esse Abestation de conformité CE : CESI 06 ATEX.065 X
atmosphe - t are design - 9 The prese - s - s - s - s - s - s - s - s	In the second se	 déclarons que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles AT 2 QQ, en zenes 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX,, sont construitée conformèment aux dépositions de la directive européenne : 948/0E, mors 1994, "ATEX". L'aprésente déclaration est étable sur la base de la conforméé aux normes suivantés : name EN 50014, 1997 et AL, A2:1999, matériel électrique pour atmosphères explosibles. Règles générales. name EN 60079-18, 2004, mutériel électrique pour atmosphères explosibles. Règles générales. name EN 60079-18, 2004, mutériel électrique pour atmosphères explosibles gazeuses. Partie 18 : Construction, essais et marquage des matériels électriques distribués à être utilisés en présence de poussières constructions = Partie 1-1 : Matériels électriques participés par enveropes - Construction essai
atmoophe - tt are design - 9 The prese - 5 - 5 - 6 - 5 - 6 - 5 - 7 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	In the second se	 déclarons que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles AT 2 00, en cores 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX., sont construites conformèment aux dispositions de la directive européanne : 948/CE, mors 1994, "ATEX". La présente déclaration est établie sur la base de la conformé aux normes suivantes : norme EN 50014, 1997 et AL, A2:1999, matériel électrique pour atmosphéres explosibles. Règles générales. norme EN 50015, 1904, matériel électrique pour atmosphéres explosibles générales. norme EN 500179-18, 2004, matériel électrique pour atmosphéres explosibles gazeuses. Parle 18 : Construction, esseis et marquage des matériels électriques du type de protection par encepsulage "m". norme EN 50021-11, 1988 et Al 2002, Matériels électriques protégies par enveloppes - Construction et ess Athestation de conformé CE : CESI 06 ATEX 085 X Contricat d'assurance qualité : LCIE 03 ATEX 04 3027
atmosphe - t are design - 9 The prese - 5 0 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	In the second se	 déclaranz que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères exploables ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères exploables ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères exploables ATEX 30mm pour commande de la directive européenne : 940/CE, mars 1994, "ATEX". La prèsente déclaration est étable sur la base de la conformé aux normes suivantes : norme EN 50014, 1997 et AL, A2:1999, matériel directique pour atmosphères explosibles. Règles générales. norme EN 50019-18, 2004, matériel électrique pour atmosphères explosibles gazeuses. Partie 18 : Construction, esses et marquage des matériels électriques du type de protection per encepsage "m". norme EN 5001-1-1, 1995 et AL 1000, Matériels électriques protégiés par enveloppes - Construction et ess Attestation de contomblé CE : CESI 06 ATEX 065 X Oattificat d'assurance qualte : LCIE 03 ATEX 0407
atmosphe - 10 are design - 9 The prese - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	In the second of	 déclarons que les babies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphèses explosibles ATEX 00, en xeves 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX., sont construites conformèment aux dispositions de la directive europhenne : 9480/CE, mors 1994, "ATEX". La prèsente déclaration est établie sur la base de la continnité aux normes suivantes : norme EN 50014, 1997 et AL, A2:1999, matériel électrique pour atmosphères explosibles paseuses. Parle 18 : Construction, essais et marquage des matériels électriques du type deprotection par encepsulage "m". norme EN 50021-14, 1998 et Al 2002, Matériels électriques protégies par enveloppes - Construction et ess Attestation de conformé CE : CESI 06 ATEX 085 X. Centricat d'assurance quaité : LCIE 03 ATEX 085 X. Centricat d'assurance quaité : LCIE 03 ATEX 04 0007 Information complémentaire : La conception de ces produits permet leur utilisation dans un environnement sounds à l'application de la Directive ATEX 940/CE sous reserve que : e ces produits celles pare tables devectours type EV300.100, EV300.200 ou 1EV.*310,
etmosphe – R are design – 9 The prese – s – s – s – s – s – s – s – s	Information: ATEX solenaids used for deving electro-presentation valves intended for use in explosive ver ull 2 GD in zones 1, 2 and 21, 22: gpps EV38.A2EX, and EV38.A3EX., ned and manufactured in compliance with the European directive: HAREC, March 1994, "ATEX" and deviation is based on the compliance with the failowing elements: tandard EN 60074-19, 2004, Electrical apparatus for potentially explosive atmospheres. Seneral requirements. tandard EN 60079-19, 2004, Electrical apparatus for potentially explosive atmospheres. Seneral requirements. tandard EN 60079-19, 2004, Electrical apparatus for use in the presence of construction, text and marking of type of protection encapsulation "in" electrical apparatus. tandard EN 60079-19, 2004, Electrical apparatus for use in the presence of construction, text and marking of type of protection encapsulation "in" electrical apparatus. Fart 1-1: Electrical apparatus protected by enclosures - Construction and texting etilicate: CESI 66 ATEX 086 X surance centricate: LOE 60 ATEX 086 X surance centricate: LOE 60 ATEX 086 X products are designed for utilization in applications failing under the scope of the ATEX Directive 346/EC rage could only benefared to as long as: products are designed for utilization in applications failing under the scope of the ATEX Directive 346/EC rage could only benefare to as long as: products are designed for installation and maintenance are complying with related tandards. Each time this will be	déclarons que les bables ATEX 30mm pour commande de distributeurs àlectro-preumatiques utilisables en atmosphèse explosibles # 2 BQ, en zenes 1, 2 et 21, 22 : - types EV30.A2EX, et EV30.A3EX,, sont construiter conformèment aux dispositions de la directive europèenne : - 940/CE, mars 1994, "ATEX". La présente déclaration est étable sur la base de la conforméé aux normes suivantes : - norme EN 50014, 1997 et AJ, A2:1999, matériel électrique pour atmosphères explosibles. Règles générale. - norme EN 50079-18, 2004, matériel électrique pour atmosphères explosibles geneues. Partie 13 : Construction, essais et marquage des matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériel électrique pour atmosphères explosibles groeuses. Partie 13 : Construction, essais et marquage des matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériel électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 50079-18, 2004, matériels électriques du type de protection par encepsulage "m". - norme EN 500797 - Les protection par encepsulage "m". - norme EN 500797 - Information complémentaire : - La conception de ces produits permet leur utilisation dans un environmenent sounis à l'application de la Direchve ATEX 544/0CE sour résenre que : - ces produits soient assentibles avec les opératours type EVG00.100, EV000.200
etmosphe – R are design – 9 The prese – 5 – 5 – 6 – 6 – 6 – 6 – 7 – 7 – 7 – 7 – 7 – 7 – 7 – 7	In the second of	decisionor que los bobies ATEX 30mm pour commande de distributeum électro-preumaliques utilisables en atmosphèles explosibles # 2 OQ, en zones 1, 2 et 21, 22 : • types EV30.A2EX, et EV30.A3EX., sont construiter conformèment aux dispositions de la directive européenne : • 940/CE, mors 1994, "ATEX". La prèsente déclaration est établie sur la base de la conformité aux nomies suivantes : • nome EN 50014, 1997 et AJ, A2:1999, matérial directive européennes suivantes : • nome EN 50014, 1997 et AJ, A2:1999, matérial directive pour atmosphéres explosibles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques pour atmosphéres explosibles gazeuses. Partie 18 : • nome EN 50021-11, 1998 et AJ 2002, Matéries électriques pour atmosphéres explosibles gazeuses. Partie 18 : • construction, esses et marquage des matéries électriques pour atmosphéres explosibles gazeuses. Partie 18 : • construction, esses et marquage des matéries électriques pour terms suivantes en présence de poussières combustitées — Partie 1-1 : Madériels électriques protégies par enveloppes - Construction et esse Attestation de conformité CE : CESI 06 ATEX:065 X Oantificat d'assumance qualité : LCIE:03 ATEX:04:037 Information complémentaire : La conception de ces produits permet leur utilisation dans un environmement sounis à l'application de la Directive ATEX:44/02 E sous riferent que :
atmosphe - R are design - 9 The prese - 5 - 5 - 6 - 5 - 6 - 5 - 7 - 7 - 7 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	In the second se	 déclarons que les bobles ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères exploables # 2 00, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX, sont construiter conformèment aux dispositions de la directive européenne : 940/CE, mors 1994, "ATEX". La prèsente déclaration et étable sur la base de la conformité aux nomes suivantes : nome EN 50014, 1997 et AL, A2:1999, matérial directive européenne : nome EN 50014, 1997 et AL, A2:1999, matérial directive pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5001-1, 1997 et AL, A2:1999, matérial directive pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5002-11, 1998 et AL 2002, Matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5002-11, 1998 et AL 2002, Matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques pour tens subles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques protégies par enveloppes - Construction et esses Attestation de conformité CE : CESI 06 ATEX:065 X Conflicat d'assumance qualité : LCIE 03 ATEX:04:0037 Information complémentaire : La conception de ces produits permet leur utilisation dans un environmement soumis à l'application de la Directive ATEX:244/02 sous risement que : ces produits point a semitilé avec les opérators type EV:00.100, EV:00.200 ou 1EV:310, les opérations nécessaires à leur installation et à leur maintennance scient effectuées en conformité more leurons en viguaur. Chaque fois que cela sera nécessaire, Instiliateur Gena effectuer la démarche de mise er conformité de fégujement final.
atmosphe - R are design - 9 The prese - 5 - 5 - 6 - 6 - 7 - 7 - 7 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	Information: ATEX solenaids used for deving electro-presentation valves intended for use in explosive ver ull 2 GD in zones 1, 2 and 21, 22: gpps EV38.A2EX, and EV38.A3EX., ned and manufactured in compliance with the European directive: HAREC, March 1994, "ATEX" and deviation is based on the compliance with the failowing elements: tandard EN 60074-19, 2004, Electrical apparatus for potentially explosive atmospheres. Seneral requirements. tandard EN 60079-19, 2004, Electrical apparatus for potentially explosive atmospheres. Seneral requirements. tandard EN 60079-19, 2004, Electrical apparatus for use in the presence of construction, text and marking of type of protection encapsulation "in" electrical apparatus. tandard EN 60079-19, 2004, Electrical apparatus for use in the presence of construction, text and marking of type of protection encapsulation "in" electrical apparatus. Fart 1-1: Electrical apparatus protected by enclosures - Construction and texting etilicate: CESI 66 ATEX 086 X surance centricate: LOE 60 ATEX 086 X surance centricate: LOE 60 ATEX 086 X products are designed for utilization in applications failing under the scope of the ATEX Directive 346/EC rage could only benefared to as long as: products are designed for utilization in applications failing under the scope of the ATEX Directive 346/EC rage could only benefare to as long as: products are designed for installation and maintenance are complying with related tandards. Each time this will be	declaroza que los bobles ATEX 30mm pour commande de distributeum èlectro-preumaliques utilisables en atmosphèles explosibles AT 2 OQ, en zones 1, 2 et 21, 22 : • types EV30.A2EX, et EV30.A3EX, sont construiter conformèment aux dispositions de la directive européenne : • 940/CE, mors 1994, "ATEX". La prèsente déclaration ett établie sur la base de la conformité aux nomies suivantes : • nome EN 50014, 1997 et AJ, A2:1999, matérial directive européennes suivantes : • nome EN 50014, 1997 et AJ, A2:1999, matérial directive pour atmosphéres explosibles gazeuses. Parte 18 : Construction, esses et marquage des matéries électriques pour atmosphéres explosibles gazeuses. Parte 18 : Construction, esses et marquage des matéries électriques pour atmosphéres explosibles gazeuses. Parte 18 : Construction, esses et marquage des matéries électriques pour atmosphéres explosibles gazeuses. Parte 18 : Construction, esses et marquage des matéries électriques pour ternosphéres explosibles gazeuses. Parte 18 : • nome EN 50073-18, 2004, matéries électriques du type de protection per enceptage "m". • nome EN 50073-11, 1998 et AJ 2002, Matéries électriques protégés par enveloppes - Construction et esses Attestation de conformité CE : CESI 06 ATEX:085 X Oanfietat d'assumance qualité : LCIE 03 ATEX:08 1007 Information complémentaire : La conception de ces produits permet leur utilisation dans un environmenent soumis à l'application de la Directive ATEX:546/02 is sus risement que : • ces produits coient assemblés avec les opératours type EV300.100, EV300.200 ou 1EV:310, • les opérations nécessaires à leur installation dans un environmenent soumis à l'application de la Directive antex:546/02 is sus risemes que ce as sera nécessaire, futulisateur cienta effectuer la démarche de mise er conformité de fégugement final.
etmosphe – R are design – 9 The prese – 5 – 5 – 6 – 6 – 6 – 6 – 7 – 7 – 7 – 7 – 7 – 7 – 7 – 7	In the second se	 déclarons que les boblies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères explosibles AT 200, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX, sont construiter conformèment aux dispositions de la directive européenne : 940/CE, mors 1994, "ATEX". La prèsente déclaration et établie sur la base de la conformité aux nomies suivantes : nome EN 50014, 1997 et AL, A2:1999, matérial directive européenne : nome EN 50014, 1997 et AL, A2:1999, matérial directive pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électrique pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour temosphéres explosibles gazeuses. Partie 19 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour temosphéres explosibles gazeuses. Partie 19 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques protégiés par enveloppes - Construction et ess Attestation de conformité CE : CESI 06 ATEX/085 X Oantificat d'assumance qualité : LCIE/03 ATEX/087X Information complémentaire : La conception de ces produits permet leur utilisation dans un environmenent soumis à l'application de la Directive ATEX/34/02 Essus risement que : esse produits permet que : esse produits pointer que : es présente que : es présentes que das sera nécessaire, hutilisateur devra effecture la démarche de mise et conformité de léquipement final.
etmosphe – R are design – 9 The prese – 5 – 5 – 6 – 6 – 6 – 6 – 7 – 7 – 7 – 7 – 7 – 7 – 7 – 7	In the second se	 déclarons que les boblies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères explosibles AT 200, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX, sont construiter conformèment aux dispositions de la directive européenne : 940/CE, mors 1994, "ATEX". La prèsente déclaration et établie sur la base de la conformité aux nomies suivantes : nome EN 50014, 1997 et AL, A2:1999, matérial directive européenne : nome EN 50014, 1997 et AL, A2:1999, matérial directive pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électrique pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour atmosphéres explosibles gazeuses. Partie 18 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour temosphéres explosibles gazeuses. Partie 19 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques pour temosphéres explosibles gazeuses. Partie 19 : nome EN 5001-1-1, 1998 et AL 2002, Matéries électriques protégiés par enveloppes - Construction et ess Attestation de conformité CE : CESI 06 ATEX/085 X Oantificat d'assumance qualité : LCIE/03 ATEX/087X Information complémentaire : La conception de ces produits permet leur utilisation dans un environmenent soumis à l'application de la Directive ATEX/34/02 Essus risement que : esse produits permet que : esse produits pointer que : es présente que : es présentes que das sera nécessaire, hutilisateur devra effecture la démarche de mise et conformité de léquipement final.
atmorphe - R are design - 9 The prese - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	In the second se	delators que los bobies ATEX 30mm pour commande de distributeurs électro-preumatiques utilisatées et sinceptères explosibles AT DQ enzones 1, 2 et 21, 2 :: . 1;pes EUDAZEX, et EUDADEX, Enternitrative conformèment aux dépositions de la directive européenne: . 940/CE, mors 1994, "ATEX". Derivente déclaration est établie sur la base de la conformé aux normes suivantes : . norme EN 500/29-18, 2004, mutifiel déconque pour atmosphéres explosibles Régies générales. . norme EN 600/29-18, 2004, mutifiel déconque pour atmosphéres explosibles gazeuses. Partie 18 : . norme EN 500/29-18, 2004, mutifiel déconque pour atmosphéres explosibles gazeuses. Partie 18 : . norme EN 500/29-18, 2004, mutifiel décontique pour atmosphéres explosibles gazeuses. Partie 18 : . norme EN 500/29-18, 2004, mutifiel décontique pour atmosphéres explosibles gazeuses. Partie 18 : . norme EN 500/29-18, 2004, mutifiel décontique pour atmosphéres explosibles gazeuses. Partie 18 : . norme EN 500/29-18, 2004, mutifiel décontiques du type de putchection per encospange "m". . norme EN 500/29-11, 1395 et al. 1000c, Matéries électriques protégies par enveloppes - Construction et ess . Attestistion de conformité CE :
atmosphe - R are design - 9 The prese - 5 - 5 - 5 - 5 - 6 - 5 - 6 - 5 - 7 - 7 - 7 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	In the second se	 déclarons que les bobles ATEX 30mm pour commande de distributeurs électro-preumatiques utilisables en atmosphères exploables # 2 00, en zones 1, 2 et 21, 22 : types EV30.A2EX, et EV30.A3EX, sont construiter conformèment aux dispositions de la directive européenne : 940/CE, mors 1994, "ATEX". La prèsente déclaration et étable sur la base de la conformité aux nomes suivantes : nome EN 50014, 1997 et AL, A2:1999, matérial directive européenne : nome EN 50014, 1997 et AL, A2:1999, matérial directive pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5001-1, 1997 et AL, A2:1999, matérial directive pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5002-11, 1998 et AL 2002, Matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : nome EN 5002-11, 1998 et AL 2002, Matéries électriques pour atmosphères explosibles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques pour tens subles gazeuses. Partie 18 : Construction, esses et marquage des matéries électriques protégies par enveloppes - Construction et esses Attestation de conformité CE : CESI 06 ATEX:065 X Conflicat d'assumance qualité : LCIE 03 ATEX:04:0037 Information complémentaire : La conception de ces produits permet leur utilisation dans un environmement soumis à l'application de la Directive ATEX:244/02 sous risement que : ces produits point a semitilé avec les opérators type EV:00.100, EV:00.200 ou 1EV:310, les opérations nécessaires à leur installation et à leur maintennance scient effectuées en conformité more leurons en viguaur. Chaque fois que cela sera nécessaire, Instiliateur Gena effectuer la démarche de mise er conformité de fégujement final.



Isstruction GB VikingXtreme VALVES CE (E) =>arker	Instruction FR DISTRIBUTEURS VikingXtreme CE E Parker
1 - SPECIFICATIONS	1-SPECIFICATIONS
Max Operating Frequency	Fréquence de service maxi
Operating temperature (Ta)	Température de service (Ta)
Fluid temperature	Température du fluide
Operating pressure	Pression de service
Internal pressure	Alimentation interne
- Dry air or inert gas class 4	- Air sec ou gaz neutre classe 4
Operating position Any position 2 – FUNCTIONS	Position de fonctionnement Indifférente 2 – FONCTIONS
5/2 Bistable 5/3 Pressure exhausted neutral (COE and COP) 5/2 Air return monostable 5/3 Pressure held neutral	5/2 Bistable 5/3 Centre ouvert (COE et COP) 5/2 Monostable différentiel 5/3 Centre fermé
5/2 Air return monostable 5/3 Pressure neid neutral 5/2 Spring return monostable With a pneumalical or electric pilot	5/2 Monostable à rappel ressort Pilotage pneumatique ou électrique
3-INSTALLATION	3 – INSTALLATION Montage selon description du catalogue PARKER
 Mounting according to Parker technical leaflet Electrical connection of the protective earth by M3, M4 or M6 screw 	Raccondement électrique terre par vis M3, M4 ou M6
 Maxi number of pneumatic valve per island (to avoid electrostatic load) : 10 (size A or B), 6 (size C or D) 	 Nombre maximal de distributeurs preumatiques par liot (Evitement charge électrostatique) : 10 (taille A ou B), 6 (taille C ou D)
 Maxi torque of fixing screws : M3 : 1.3 Nm ; M4 : 3 Nm ; M6 : 10.5 Nm 	 Couple de serrage maximal des vis de fixation : M3 : 1.3 Nm ; M4 : 3 Nm ; M6 : 10.5 Nm
 Maxi torque on operator: 1.4 Nm Maxi torque on fittings: 1.18": 10 Nm; 1/4": 40 Nm; 3/8": 55 Nm; 1/2": 75 Nm 	 Couple de serrage maximal de l'opérateur : 1.4 Nm Couple de serrage maximal des raccords : 1/8" : 10 Nm : 1/4" : 40 Nm : 3/8" : 55 Nm : 1/2" : 75 Nm
With an electric pilot :	Avec pliotage électrique :
Mounting with ATEX Nass solenoid 0513 00 to 0513 49 and 1213 00 to 1213 49 type Or ATEX Nass solenoid 0515 30 to 0515 59 and 1215 30 to 1215 59 type (take care of dimensions for valve island)	 Installation avec une bobine ATEX type Nass 22 mm 0513 00 à 0513 49 et 1213 00 à 1213 49 Ou ATEX type Nass 30 mm 0515 30 à 0515 59 et 1215 30 à 1215 59 (Attention à l'encombrement pour un lôt)
Cr ATEX Nass solenoid 0515 60 to 0515 99 and 1215 60 to 1215 99 type WARNING	Ou ATEX type Nass 30 mm 0515 60 à 0515 99 et 1215 60 à 1215 99 ATTENTION
 Cenditions for installing the product have to comply with specifications mentioned in chapters 1 and 3. 	 Le produit doit être installé dans un environnement conforme aux spécifications des chapitres 1 et 3.
 Before maintenance on the product, stop the air and ensure that pipes are exhausted. Then proceed. The replacement of the product or of one of its parts must be done with a product or a part of the same ATEX. 	 Avant toule intervention sur le produit, couper l'air comprimé. S'assurer que le circuit est pungé puis procéder à l'intervention.
category.	 Le remplacement du produit ou de l'un de ses composants doit être effectué avec un produit ou un composant de
 Product cleaning should be done by a method complying with the specifications of the ATEX zone, preferably by aspiration and/or utilization of antistatic products. The deposit of dust should not exceed 5 mm. 	même catégorie ATEX. Le nettoyage des produits sera réalisé salon une méthode respectant les spécificités ATEX de l'installation, de
 The installation and maintenance of the product must be done by qualified personnel. 	préférence par aspiration et/ou par utilisation de produits antistatiques. Le dépôt de poussière ne doit pas excéder 5 mm.
	 L'installation et la maintenance du produit doivent être effectuées par du personnel qualifié.
4- ATEX CLASSIFICATION	4-CLASSIFICATION ATEX E. II 2 GD c 135 °C
Specific logo for safety in hazardcus atmospheres	I san de si lange se un de sente se descrite se descrite se de se
C* Destination : Group II : Atmospheres other than in mines	Copros reference source en anisopheres explosives Desthation (Groupe (Cuteforphyles de surface
2 For use in zones 1 and 21	2 Utilisation en zones 1 et 21
GD Gas or Dust atmospheres c Protection mode: "c", constructional safety	GDV Abrospheres (ok type gliz or pouglière
135 °C Temperature class (T4)	c Mole de protection : "c", sécurité de construction 135 °C Clorpe los température (11)
The maximum ambient temperature (Ta) of the equipment or of the subassembly incorporating P2LX valves will be defined as :	La linité de templeature ambiante (Ta) de l'équipement ou de l'ensemble incorporant un distributeur VikingXteme type PZ_X serg/définie comme suit :
 (Ta) of the element having the lowest limit if this one is < 50°C. 	 (Tp)-du-composant ayant la limite la plus faible si celle-ci est < 50°C,
 50°C if elements other than the valve have a (Ta) > 5000. 	 50°C si les constituants autres que le distributeur ont une (Ta) > 50°C.
EC DECLARATION OF CONFORMITY	DECLARATION CE de CONFORMITE
We, Parker Hannifin France S.A.S. Etablissement d'Evreux	Nous, Parker Hannifin France S.A.S. Etablissement d'Evreux
Rue H. Becquerel – BP 3124	Rue H. Becquerel – BP 3124
27031 EVRÉUX CEDEX France	27031 EVREUX CEDEX - France
hereby declare that the following VikingXtreme valves	déclarons que les distributeurs VikingXtreme référencés :
- P2LX, P2LX5	- P2L.X, P2L.X5
are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22).	sont utilisables en atmosphére explosible II 2 GD (zones 1,2 et 21,22).
These products are designed and manufactured in compliance with the European Directive:	Ces produits sont construits conformément aux dispositions de la directive européenne :
- 94/9/EC, March 1994, "ATEX".	- 94/9/CE, mars 1994, "ATEX".
The present declaration is based on the compliance with the following standards:	La présente déclaration est établie sur la base de la conformité aux normes suivantes :
- Standard EN 13463-1, 2001 and AC:2002, Non-electrical equipment for potentially explosive	 norme EN 13463-1, 2001 et AC : 2002, Matériels non électriques pour utilisation en
atmospheres. Part 1 : Basic method and requirements,	atmosphères explosibles. Partie 1 : Prescriptions et méthode de base,
 Standard EN 13463-5, 2003, Non-electrical equipment intended for use in potentially explosive atmospheres. Part 5 : Protection by constructional safety "c". 	 norme EN 13463-5, 2003, Appareils non électriques destinés à être utilisés en atmosphères explosibles. Partie 5 : Protection par sécurité de construction "c".
Technical file : 3001880X	Dossier technique : 3001880X
Submitted at : LCIE 33 avenue du Général Leckerc, 92260 Fontanay-Aux-Roses	Déposé auprès de : LCIE 33 avenue du Général Leclerc, 92260 Fontenay-Aux-Roses
Additional information :	Information complémentaire :
These products are designed for utilization in applications failing under the scope of the ATEX Directive 94/9/EC. This coverage could only be referred to as long as operations required for the installation and the maintenance of these	La conception de ces produits permet leur utilisation dans un environnement soumis à l'application de la Directive ATEX 94/9/CE sous réserve que les opérations nécessaires à leur installation et à leur maintenance scient
products are complying with related standards.	effectuées en conformité avec les dispositions des normes en vigueur.
The user will have to comply with procedures for getting an approval of the final assembled system according to related regulations.	L'utilisateur prendra en charge la mise en conformité de l'installation finale conformément à la réglementation en vigueur.
Issued at Evreux Date : November 27 th , 2007	Fait à Evreux Date : 27 novembre 2007
	ml
	Str.
CE marked : 2007	Jean-François Viste
UE INSINGU , 2007	Date d'application marquage CE : 2007 Responsable ATEX



J

EC DECLARATION of CONFORMITY

(ε.)

Parker Hannifin France S.A.S.

Etablissement d'Evreux Rue H. Becquerel – BP 3124 27031 EVREUX CEDEX – France

Hereby declare that the following electro-pneumatic valves:

P2LX....A....., P2LX5....A.....

Are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22).

These products are designed and manufactured in compliance with the European Directive:

94/9/EC, mars 1994, "ATEX".

The present declaration is based on the compliance with the following standards, for the products indicated hereafter entering the composition of the unit above mentioned :

P2L.X..... et P2L.X5.... type valves

(€,) || 2 GD c 135 °C

(2.)

- standard EN 13463-1, 2001 and AC : 2002, Non-electrical equipment for potentially explosive atmospheres. Part 1: Basic method and requirements,

- standard EN 13463-5, 2003, Non-electrical equipment intended for use in potentially explosive atmospheres. Part 5: Protection by constructional safety "c".

IEC Ex m II T4

T13

L

IP65 DIP A2

Technical file: 3001880X

Submitted at: LCIE

We,

33 avenue du Général Lecierc, 92260 Fontenay-Aux-Roses

0513 00 to 0513 49 and 1213 00 to 1213 49 solenoid type manufactured by Nass Magnet GmbH company, Hanover

I 2G EEx m II T4 II 2D IP65 T130 °C

- standard DIN EN 50014, 1997, Electrical apparatus for potentially explosive atmo-

Enc - standard DIN EN 50028, 1987, Electrical apparatus for potentially explosive atr

- standard IEC 60079-0, 2000, Electrical apparatus for explosing gas at
- standard IEC 60079-18, 1992, Electrical apparatus for explosive gps at
- standard DIN EN 59281-1-1, 1999, Electrical-apparatus for us te pr
- standard IEC 61/241-1 (1, 1999, Electrical apparatus for use in the pl ice of combustible dust
- standard DIN EN 60529, 2000, Degrees of regarded on provided by enclosures (IP Code)
 standard DIN EN 61030.6.4, 2002, gliestromagnetic competibility, interference emissions, industrial sector (met by additional circuitry measures)
- standard DIN EN \$1000-6-2, 2002, Electromagnetic compatibility, interference immunity, industrial sector
- standard DIN VDE 0580, 2000, Electromagnetic devices and components (General specifications)

Homologation certificates : PTB 00 ATEX 2001X and IECEx PTB 05.0006X

Issued by PTB - id. 0102 Or

2 0515 30 to 0515 59 and 1215 30 to 1215 59 solenoid type manufactured by Nass Magnet GmbH company, Hanover

(2.)	II 2G EEx m II T5	IEC Ex m II T5
6.	II 2D IP65 T95 *C	IP65 DIP A21 T95 *C

Same standards applied as for the above solenoid except standard DIN VDE 0580, 1994, Electromagnetic devices and components (General specifications)

Homologation certificates : PTB 03 ATEX 2018X and IECEx PTB 04.0002X Issued by PTB – id. 0102

or 0515 60 to 0515 99 and 1215 60 to 1215 99 solenoid type manufactured by Nass Magnet GmbH company, Hanover

Same standards applied as for the above solenoid except standard DIN VDE 0580, 1964, Electromagnetic davices and components (General specifications)

Homologation certificates : PTB 03 ATEX 2018X and IECEx PTB 04.0002X Issued by PTB - id. 0102

Additional information:

These products are designed for utilization in applications failing under the scope of the ATEX Directive 949/EC. This coverage could only be referred to as long as operations required for the Installation and the maintenance of these products are complying with related standards.

The user will have to comply with procedures for getting an approval of the final assembled system according to related regulations.

Issued at Evreux

Date : November 27th, 2007

CE marked : 2007

Jean-François Viste ATEX manager



Instruction GB Limit switches CE	Interrupteurs de position CE			
1 - SPECIFICATIONS	1 - SPECIFICATIONS			
Operating temperature (Ta)	Température de service (Ta)			
Fixid temperature	Température du fluide			
Operating pressure 3 to 8 bar (45 to 116 psi)	Pression de service			
Air condition	Fluide admissible et qualité ISO 8573-1 : - Air ou gaz neutre fitte classe 5 Air soc ou gaz neutre classe 4			
Filow rate (IIInn) at 6 bar (ISO 6358)	Débit (en limn) à 6 bar (ISO 6356)			
Max Operating Frequency	Fréquence de service maxi			
Protocling dagree IP 65 EN 60529), distance Protocling position	Degné de protection IP 65 selon EN 60529, étanchété à la poussière Position de fonctionnement Indifférente			
2 - MODELS AND FUNCTIONS PXC-M 3/2 limit switches	2 - TYPES ET FONCTIONS PXC-M			
3 - INSTALLATION	3 – INSTALLATION Montage selon description du catalogue PARKER			
 Mounting according to the PARKER catalogue The speed of attack must be lower than 1m/s for all the product range 	La vitesse d'attaque doit être inféreure à 1 m/s pour toute la gamme			
The fixing of the product must be firm	 La foation du produit doit être ferme 			
 Earth connection recommended 	 Raccordement à la terre du produit 			
WARNING	ATTENTION			
 Conditions for installing the components must comply with specifications mentioned in chapters 1 and 3. 	 Les composants doivent être installés dans un environnement conforme aux spécifications des chapitres 1 et 3. 			
· Before maintenance operations, stop the air and ensure that pipes are exhausted. Then proceed.	 Avant toute opération de maintenance, couper l'air comprimé. S'assurer que le circuit est purgé puis procéder à 			
The replacement of a component must be done with a component of the same ATEX calegory.	Entervention.			
 Cleaning operations should be done in compliance with the specifications of the ATEX zone, preferably by 	 Le remplacement d'un composant doit être effectué avec un composant de même calégorie ATEX. Les coérations de netloyage seront réalisées conformément aux spécificités ATEX de l'installation, de préférence 			
aspiration and/or utilization of antistatic products. The deposit of dust should not exceed 5 mm. • The installation and maintenance operations must be done by qualified personnel.	 Les operations de nenoyage seront realisées comonnement aux specificies ATEX de Inisialization, de preference par aspiration et/ou par utilisation de produits antistatiques. Le dépôt de poussière ne doit pas excéder 5 mm. 			
The instantion and maintenance operations must be ovine by quantice personnet.	 L'installation et les opérations de maintenance doivent être effectuées par du personnel qualifié. 			
4 - ATEX CLASSIFICATION (E.) II 2 GD c 85 °C	4-CLASSIFICATION ATEX			
Construction for additional terror descentions				
(C)	(8)			
Destination : Group II : Atmospheres other than in mines For use in zones 1 and 21	Destination- Groupe II : Atmospheres de surface Utilisation en jones 1/ef 21			
2 For use in zones 1 and 21 GD Gas or Dust atmospheres	GD Atmospheres de type gaz/ou poussielle			
c Piotection mode : "c", constructional safety	c Mode de protection : "c", securité de construction			
85°C Temperature closs (T6)	85°C Daque de templerature (TB)			
The maximum ambient temperature (Ta) of the equipment or of the subassembly incorporating limit switches will be	La limite de liemptetaute ambiente (La) de l'égérpement ou de l'ensemble incorporant les interrupteurs de position sera définie comme suit :			
defined as	définie comme suit :			
 (Ta) of the element having the lowest limit if this one is < 60°C. 	 (Ta) dx_conposant sylpot artimite to plus faible si celle-ci est < 60°C, 			
 60°C if elements other than the limit switches have a (Ta) > 50°C. 	 60°C si les corafituants autres que les interrupteurs de position ont une (Ta) > 60°C. 			
EC DECLARATION OF CONFORMITY CE	DECLARATION CE de CONFORMITE CE 🐵			
We, Parker Hannifin France S.A.S.	Nous, Parker Hannifin France S.A.S.			
Etablissement d'Evreux	Etablissement d'Evreux			
Rue H. Becquerel – BP 3124	Rue H. Becquerel – BP 3124			
27031 EVREUX CEDEX – France	27031 EVREUX CEDEX – France déclarons que les composants de la gamme des internucteurs de position référencés :			
hereby declare that the following components from the limit switches range:	déclarons que les composants de la gamme des interrupteurs de position rélérencés :			
hereby declare that the following components from the limit switches range: - PXC-M: 3/2 limit switches	déclarons que les composants de la gamme des interrupteurs de position référencés : - PXC-M : Interrupteurs de position 3/2			
 PXC-M: 3/2 limit switches are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22). These components are designed and manufactured in compliance with the European Directive: 	 PXC-M: Interrupteurs de position 3/2 sort utilisables en atmosphère explosible II 2 GD (zones 1,2 et 21,22). Ces composants sont construits conformément aux dispositions de la directive européenne : 			
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PXC-M : 3/2 limit switches are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22). These components are designed and manufactured in compliance with the European Directive: 94/9/EC, March 1994, "ATEX" The present declaration is based on the compliance with the following standards: Standard EN 13483-1, 2001 and AC: 2002, Non-electrical equipment for potentially explosive atmospheres. Part 1 : Basic method and requirements Standard EN 13483-5, 2003, Non-electrical equipment for potentially explosive atmospheres. Part 1 : Basic method and requirements Standard EN 13483-5, 2003, Non-electrical equipment intended for use in potentially explosive atmospheres. Part 5: Protection by constructional safety "c". Technical file: 1509070 X Submitted at: LCIE, 33 avenue du général Leclerc, 92260 Fontenay-aux-roses Additional information: These products are designed for utilization in applications falling under the acope of the ATEX Directive 94%EC. The scoreage could only be referred to as long as operations for the insafation and the maintenance of these products are complying with procedures for getting an approval of the final assembled system according to related regulations. The user will have to comply with procedures for getting an approval of the final assembled system according to related regulations. Issued at Evreux	PXC-M : Interrupteurs de position 3/2 sort utilisables en atmosphère explosible II 2 GD (zones 1,2 et 21,22). Ces composants sont construits conformément aux dispositions de la directive européenne : - 94/9/CE, mars 1994, "ATEX" La présente déclaration est établie sur le base de la conformité eux normes suivantes : - norme EN 13463-1, 2001 et AC:2002, Matériels non électriques pour utilisation en atmosphères explosibles. Partie 1 : Prescriptions et méthode de base, - norme EN 13463-5, 2003, Appareits non électriques destinés à être utilisés en atmosphères explosibles. Partie 5 : Protection par sécurité de construction "c". Dossier technique : 1509/70 X Déposé auprès de : LCIE, - 33 avenue du général Leclerc, \$2260 Fontenay-aux-roses Information complimentaire : La conception de cas produits permet leur utilisation dans un environnement sourris à l'apptication de la Directive ATEX 94/9/CE sous riserve que les conformité de l'installation et à leur maintenance scient effectuées en conformité de la mise en conformité de l'installation finale conformément à la réglementation en vigueur. Fait à Evreux			
PXC-M : 3/2 limit switches are compatible for use in explosive atmosphere II 2 GD (zones 1,2 and 21,22). These components are designed and manufactured in compliance with the European Directive: 94/9/EC, March 1994, "ATEX" The present declaration is based on the compliance with the following standards: Standard EN 13483-1, 2001 and AC: 2002, Non-electrical equipment for potentially explosive atmospheres. Part 1 : Basic method and requirements Standard EN 13483-5, 2003, Non-electrical equipment for potentially explosive atmospheres. Part 5 : Protection by constructional safety "c". Technical file: 1509070 X Submitted at: LCIE, 33 avenue du général Leclerc, 92260 Fentenay-aux-roses Additional information: These products are designed for utilization in applications falling under the scope of the ATEX Directive 949/EC. The sconage could only be refitted to as long as operations for the insaliation and the maintenance of these products are comply with procedures for getting an apprival of the final assembled system according to related regulations.	 PXC-M: Interrupteurs de position 3/2 sort utilisables en atmosphère explosible II 2 GD (zones 1,2 et 21,22). Ces composants sont construits conformément aux dispositions de la directive européenne : 94/9/CE, mars 1994, "ATEX" La présente déclaration est établie sur le base de la conformité eux normes suivantes : norme EN 13463-1, 2001 et AC:2002, Matériels non électriques pour utilisation en atmosphères explosibles. Partie 1 : Prescriptions et méthode de base, norme EN 13463-5, 2003, Appareits non électriques destinés à être utilisés en atmosphères explosibles. Partie 5 : Protection par sécurité de construction "c". Dossier technique : 1509070 X Déposé auprès de : LCIE, 33 avenue du général Lecterc, \$2260 Fontenay-aux-roses Information complimentaire : La conception de les produits des units ation dans un environnement sourris à l'application de la Directive ATEX 94/9/CE sous réserve que les capacitation dans un environnement sourris à l'application de la Directive ATEX 94/9/CE sous réserve que les capacitation dans un environnement à la réglementation en vigueur. 			



Instruction Leaflet	GB	Visual indicators	CE (E) Darker	Instruction de service	FR	Voyants	CE (E.) -Darker
	FICATIONS			1 - SPECIFI	CATIONS		
	g lemperature (Ta)	-15°C to +60°C (5°F to	+140°F)	 Températu 	re de service (Ta)		
	perature				re du fluide		
	g pressure	ISO 8573-1: - Filtere	d air or inert gas class 5		nissible et qualité	ISO 8573-1 : - Air o	u gaz neutre filtré classe 5
	erating Frequency		or inort gas class 4		de service maxi	1 Hz	ec ou gaz neutre classe 4
2 - MODE	LS AND FUNCTIONS			2-TYPES E	ET FONCTIONS	Voyant Ø 22 mm	
PXV-F1. 3 – INSTAI		Visual indicator Ø 22 m	m	PXV-F1 3 – INSTALL	ATION	voyant to 22 mm	
	according to the PARKER	catalogue.			elon description du catalogue P	ARKER.	
WARNING				ATTENTION			
		ents must comply with specifications men p the air and ensure that pipes are exhau					ux spécifications des chapitres 1 et 3. ue le circuit est purgé puis procéder à
 The replication 	acement of a component mu	ust be done with a component of the sam	e ATEX calegory.	Fintervention I a remained		e effectué avec un composant d	a mima catégoria ATEX
		in compliance with the specifications of atic products. The deposit of dust should		 Les opérat 	tions de nettoyage seront réalise	ées conformément aux spécificit	és ATEX de l'Installation, de préférence
The inst	tallation and maintenance	operations must be done by qualified	personnel.			uits antistatiques. Le dépôt de p tenance delivent être effectuée	oussière ne doit pas excéder 5 mm. es par du personnel qualifié.
		-				_	
4 - ATEX	CLASSIFICATION	< <p>⟨€.⟩ 2 GD c 85 °C</p>		4 - CLASSI	FICATION ATEX	⟨E₁⟩ 2 GD c 85 °C	>
(E.)	Specific logo for safety in	hazardous atmospheres		$\langle \mathcal{E}, \rangle$	Logo de référence pour la sécu	rité en atmosphères explosibles	
1		mospheres other than in mines		11	Destination : Groupe II : Almos	phères de surface	
2 GD	For use in zones 1 and 21 Gas or Dust atmospheres				Utilisation en zones 1 et 21 Atmosphires de type gaz ou po	eréizeuc	
c	Protection mode: "c", cons			c	Mode de protection : "c", sécuri		
85°C	Temperature class (T6)			85°C	Classe de lempérature (T6)		
	um ambient temperature (Ta	a) of the equipment or of the subassembl	y incorporating visual indicators will be	La limite de te suit :	empérature ambiante (Ta) de l'é	equipement ou de l'ensemble inc	orporant les voyants sera définie comme
 defined as: (Ta) of th 	e element having the lowest	t limit if this one is < 60°C,			mposant ayani la limite la pica fa constituents autors que los voj	aible si celle-ci est < 60°C,	
• 60°C if e	lements other than the visual	al indicators have a (Ta) > 60°C.		 60°C si les 	constituants autors queltos voy	yaols ont une (Ta) > 60°C.	
			\bigcap				
				$\mathbb{N} \cup$	1		
			$\neg []]$	$ \sim$			
		$- \frown $					
	EC DECLAR	RATION of CONFORMI			DECLARATION	N CE de CONFOR	NITE E
			\mathcal{A}				
We,	Parker Hannifin Fran Etablissement d'Evrei			Nous,	Parker Hannifin France Etablissement d'Evreux		
	Rue H. Becquerel – B				Rue H. Becquerel - BP	3124	
	27031 EVREUX CED	DEX – France			27031 EVREUX CEDEX	X – France	
hereby de	clare that the following o	components from the visual indicat	ors range :	déclarons q	ue les composants de la g	amme de voyants référencé	is:
	XV-F1			- PX\			
		e atmosphere II 2 GD (zones 1,2 a and manulactured in compliance w				ble II 2 GD (zones 1,2 et 2 móment aux dispositions d	
	mponents are designed V9/EC, March 1994, "AT	-	er ere coropean breative:		sants sont construits conto B/CE, mars 1994, "ATEX"	платоп акк изроеноиз в	o la anovero duraponene.
		on the compliance with the followin	n standards:	La ordenation	déclaration est établie eur	la base de la conformité su	ix normes suivantes -
		01 and AC: 2002, Non-electrical ec					que pour utilisation en atmosphères
		ic methods and requirements	aprilate for potentially exposite			tions et méthodes de base,	
		03, Non-electrical equipment inten					nés à être utilisés en atmosphères
ex Technical		art 5: Protection by constructional	afety "c".	exp Dossier tec		n par sécurité de constructi	on "c".
Submitted				Déposé aug			
Submitted		général Laclerc, 92260 Fontenay-	aux-roses	Depose aug		u général Lederc, 92260 Fo	ontenay-aux-roses
Additional	afromation.			Information of	cmplémentaire :		
Additional is These prod		ation in applications falling under the se	ope of the ATEX Directive 949/EC.			utilisation dans un environneme	nt soumis à l'application de la Directive
This covera	age could only be referred	to as long as operations for the install	ation and the maintenance of these	ATEX 94/9/0	E sous réserve que les opé	irations nécessaires à leur ins	tatlation et à leur maintenance soient
	e complying with related sta at have to comply with aro	indards. icedures for getting an approval of the i	inal assembled system according to		conformité avec les disposition vendra en charge la mise en i		e conformément à la réglementation en
related regu		and the second on obtaining on side	and a state of the second seco	rigueur.	and a stange is more diff.		a construction and
	Issued at Evreux	Date	: January 24 th , 2007		Fait à Evreux		Date : 24 janvier 2007
	100000 at Evidux	Date			. on o should		01
							XH.
							00
CE marked	d: 2005			Date d'applie	cation marquage CE : 2005	5	Jean-François Viste Responsable ATEX



Instruction CE	Logic elements	CE 🕗 – Darker	Instruction de service	FR	Cellules logiques	CE 🕗 – Darker
1 - SPECIFICATIONS			1 - SPEC	FICATIONS		
Operating temperature (Ta)				rature de service (Ta)		
Fluid temperature Operating pressure				rature du fluide n de service		
Air condition		ed air or inert gas class 5 ir or inert gas class 4	Fluide a	admissible et qualité		ou gaz neutre filtré classe 5 sec ou gaz neutre classe 4
Max Operating Frequency Operating position	5 Hz			nce de service maxi n de fonctionnement	5 Hz	
2 - MODELS AND FUNCTIONS PLL / PLK / PLN / PLJ-C1 PRD / PRF / PRT / PSW / PSV-A12	0 / PLM / Functions AND, OR, N Amplifer, Sensor, Time	OT, YES and Latch memory, M,	PLL PRD	S ET FONCTIONS / PLK / PLN / PLJ-C10 / / PRF / PRT /	amplificateur, capt	J, NON, OUI et mémoire eur à fuite, temporisation, laire,
3 - INSTALLATION	R catalogue, in conjunction with subbases	and invest modulas:		ALLATION	ue PARKER, en association avec l	as embases of modules d'entrès -
PLE-81. /PZU PZU PSE-A1. /PSD /PSB-A1	for Amplifier, Sensor, T	imer,	PZU	. / PZU 1. / PSD / PSB-A1.	amplificateur, capt	eur à fuite, temporisation
WARNING			ATTENT	ON		
· Conditions for installing the compo	ments must comply with specifications me		· Los con	nposants doivent être installée		aux spécifications des chapitres 1 et 3.
	top the air and ensure that pipes are exhau must be done with a component of the sam		Finterve	intion.		que le circuit est purgé puis procéder à
	ne in compliance with the specifications of static products. The deposit of dust should		Le remp	placement d'un composant do institutes de settourare serrort o	it être effectué avec un composant éalisées conformément aux solcifi	de même catégorie ATEX. cités ATEX de l'installation, de préférence
	e operations must be done by qualified		par asp	iration et/ou par utilisation de	produits antistatiques. Le dépôt de maintenance doivent être effectu	poussière ne doit pas excèder 5 mm.
4 - ATEX CLASSIFICATION	(€.) 2 GD c 85 °C		4-CLAS	SIFICATION ATEX	(€.) 2 GD c 85	°C
E, Specific logo for safety	in hazardous atmospheres		(E,)	Logo de référence pour la	sécurité en atmosphères explosible	15
II Destination : Group II : /	Atmospheres other than in mines		11	Destination : Groupe II : At		
2 For use in zones 1 and GD Gas or Dust atmosphere			2 GD	Utilisation en zones 1 et 21 Atmospheres de type gaz		
c Protection mode : "c", c	onstructional safety		c	Node de protection : * , s	écurité de construction	
85°C Temperature class (T6)			85*C	Casse de température (76		
The maximum ambient temperature (defined as:	(Ta) of the equipment or of the subassemb	ly incorporating logic elements will be	La limite di	e température ambiante (Tai- nme suit :	de l'équipement cu de l'ensemble i	ncorporant les éléments de logique sera
. (Ta) of the element having the low		\frown	• (Ta) au	composant ayant la limite la p	lus faible si celle-ci est < 60°C, logique ont une (Ta) > 60°C.	
 60°C if elements other than the log 	pc have a (Ta) > 69°C.		00.62	Hes constituents autres que la	logique ont une (Ta) > 60°C.	
			1/1			
EC DECLA	ARATION of CONFORM	R LIL		DECLARAT	ION CE de CONFOR	MITE E
We, Parker Hannifin Fr	ance S.A.S.	7	Nous,	Parker Hannifin Fr	ance S.A.S.	
Etablissement d'Ev	reux			Etablissement d'Evr	reuk	
Rue H. Becquerel - 27031 EVREUX CE				Rue H. Becquerel – 27031 EVREUX CE		
hereby declars that the followin	g components from the Telepneums	tie anoumatic logic range :	décterren	e que les composents de	la namme de Indique noeuma	tique Telepneumatic référencés :
	/ PLJ-C10 / Functions AND, OR				PLJ-C10 / Fonctions ET, OL	
	PRT/ Latch memory, Amp					ateur, capteur à fuite, temporisateur,
- PSM / PSV-A1.	Modular Sequencer		- P	SM / PSV-A1.	séquenceur mode	ulaire,
are compatible for use in explos	ive atmosphere II 2 GD (zones 1,2	and 21,22).	sont utilis	sables en atmosphère exp	olosible II 2 GD (zones 1,2 et	21,22).
	d and manufactured in compliance v	with the European Directive:		and a second second	onformément aux dispositions	de la directive européenne:
 94/9/EC, March 1994, */ 	ATEX"		- 9	4/9/CE, mars 1994, "ATE	X.	
	d on the compliance with the following	-			sur la base de la conformité :	
	2001 and AC:2002, Non-electrical eq isic methods and requirements	uipment for potentially explosive			et AC:2002, Matériel non élect criptions et méthodes de base	rique pour utilisation en atmosphères
- Standard EN 13463-5, 2	003, Non-electrical equipment inten		- n	orme EN 13463-5, 2003,	Appareils non électriques des	tinés à être utilisés en atmosphères
explosive atmospheres. Type certificate: LCIE 04 AT	Part 5: Protection by constructional EX 6164X	salety C.			ection par sécurité de construc LCIE 04 ATEX 6164X	ava C.
Delivered by: LCIE			Délivrée		LCIE	
Additional information: These conducts are designed for util	ization in applications failing under the s	one of the ATEX Directive 94/9/EC		n complémentaire : tion de ces produits permet l	leve utilization dans un environnan	ant soumis à l'application de la Directive
This coverage could only be referre	d to as long as operations for the instal	lation and the maintenance of these	ATEX 94/	SICE sous réserve que les	opérations nécessaires à leur à	installation et à leur maintenance soient
products are complying with related s The user will have to comply with n	tandards. rocedures for getting an approval of the	final assembled system according to			sitions des normes en vigueur. es conformité de l'instaliation So	ale conformément à la réglementation en
related regulations.	and a start and an approval of the	contract operation according to	vigueur.	product an entry in 1800	and the second s	
Issued at Evreux	c Dat	a: January 24 th , 2007		Fait à Evreux		Date : 24 janvier 2007
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						XM
05						00
CE marked: 2004			Late d'ap	plication marquage CE : 2	2004	Jean-François Viste Responsable ATEX







P3.-

DECLARATION OF CONFORMITY (ATEX)

We Parker Hannifin Ltd. Pneumatic Division Walkmill Lane Bridgtown Cannock Staffs WS11 0LR

Declare that the following product families are non electrical and have been assessed in accordance with ATEX 94/9/EC (products for use in potentially explosive atmospheres). Electrical items supplied with any of the listed products will have their own Declaration of Conformities: -

Global Air Preparation

..... Referenced Normative Documents

EN13463 Non-electrical equipment for potential explosive atmospheres

..... Equipment Group and Category classification

II 3 GD 80⁰ C - Self Certification

..... In addition

We have conducted a hazard risk assessment analysis and concluded that the products do not possess their own potential ignition source. The basis of this declaration is the self-ignition hazard assessment on representative test samples of the product family.

For Parker Pneumatic Division, Cannock

& Huvie

David G E Davies Chief Engineer – Cannock PH165/A 15-12-06



(Ex) ATEX	DECLARATION We Parker Hannifin Manufac Pneumatic Division The Collins Centre Lichfield South Lichfield WS14 0QP UK	cturing Ltd	
Product	Series	Category	
Filter*	P31FA, P32FA, P33FA	for zone 1, 21	
Regulator	P31RA, P32RA, P33RA	for zone 1, 21	
Filter regulator*	P31EA, P32EA, P33EA	for zone 1, 21	
Lubricator*	P31LA, P32LA, P33LA	for zone 1, 21	
Ball Valve & Slide Valve	P31VA, P32VA, P33VA	for zone 1, 21	
Manifold	P31MA, P32MA, P33MA	for zone 1, 21	
For non-fitted solenoid produ	Jct		
Soft Start & Dump Valve	P31TA, P32TA	for zone 1, 21	
Soft Start Valve	P31SA, P32SA	for zone 1, 21	
Dump Valve	P31DA, P32DA	for zone 1, 21	

*Filter, Filter Regulator and Lubricator – This evaluation applies to products fitted with metal bowls only.

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness.
 - Refer to technical file for surface areas of plastics.
 - The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis.
 - Refer to technical file for chemicals known to be incompatible.

Product cleaning must be undertaken using a method complying with the specification of the ATEX zone, preferably by using mild soap and water or antistatic products.

- Regulators, Filter Regulators:
 - Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.
- Solenoid Operated Valves:
 - Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:

A. MacGuire Engineering Manager – Air Preparation EMEA





DECLARATION



We Parker Hannifin Manufacturing Austria GmbH
 Pneumatic Division
 Dr. Alexander Schärfstrasse 12
 2700 Wiener Neustadt
 Austria

Product	Series	Category
Filter	P3YFA	for zone 1, 21
Regulator	P3YRA	for zone 1, 21
Filter regulator	P3YEA	for zone 1, 21
Lubricator	P3YLA	for zone 1, 21
Ball Valve	P3YVA	for zone 1, 21
Manifold	P3YMA	for zone 1, 21
For non-fitted solenoid product		
Soft Start & Dump Valve	P3YTA	for zone 1, 21
Soft Start Valve	P3YSA	for zone 1, 21
Dump Valve	P3YDA	for zone 1, 21

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness.
 - Refer to technical file for surface areas of plastics.
 - The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis.
 - Refer to technical file for chemicals known to be incompatible.
 - Product cleaning must be undertaken using a method complying with the specification of the ATEX zone,
 - preferably by using mild soap and water or antistatic products.
- Regulators, Filter Regulators:

Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.

- Solenoid Operated Valves:
- Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:

E. Bauregger

E. Bauregger (Location Engineering Manager)



DECLARATION



We Parker Hannifin Manufacturing Austria GmbH
 Pneumatic Division
 Dr. Alexander Schärfstrasse 12
 2700 Wiener Neustadt
 Austria

Product	Series	Category
Filter	P3ZFA	for zone 1, 21
Regulator	P3ZRA	for zone 1, 21
Lubricator	P3ZLA	for zone 1, 21
Manifold	P3ZMA	for zone 1, 21
For non-fitted solenoid product		
Soft Start & Dump Valve	P3ZTA	for zone 1, 21
Soft Start Valve	P3ZSA	for zone 1, 21
Dump Valve	P3ZDA	for zone 1, 21

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING pulsating pressure and/or a closed circuit can generate heat.
 - Deposits of dust on the product must not exceed 5mm thickness.

Refer to technical file for surface areas of plastics.

- The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis.
 - Refer to technical file for chemicals known to be incompatible.

Product cleaning must be undertaken using a method complying with the specification of the ATEX zone,

- preferably by using mild soap and water or antistatic products.
- Regulators, Filter Regulators:

Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.

- Solenoid Operated Valves:
 - Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:

E. Bauregger

E. Bauregger (Location Engineering Manager)



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