



HUMAN/MACHINE DIALOGUE

Push-buttons, Two-hand control units



**IMPORTANT !**

Before carrying out any service work, ensure that the valve and manifold have been vented.

Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.

**NB !**

All technical data in this catalogue is typical only.

The air quality is decisive for the valve life:
see ISO 8573.

**WARNING – USER RESPONSIBILITY**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

Please contact your Parker representation for a detailed "Offer of Sale".

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If you have questions about the products contained in this catalog, or their applications, please contact:
Parker Hannifin EMEA Sàrl European Headquarters
parker.com/msgc

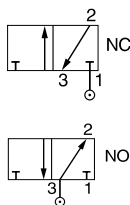
PUSH BUTTON VALVES

Ø22 mm PXB-B3•/B4•

- Facia mounted operator
- 3/2 NO or NC
- Pneumatic valves combinable with electrical switches
- Modular construction (up to 3 valves per pushbuttons heads)
- Wide range of actuators



Operating and additional information	
Working pressure PXB-B3•• PXB-B4••	1 to 9 bar 1 to 10 bar
Working temperature	-15 °C to +60 °C
Flow (acc. to ISO 6358) PXB-B3•• PXB-B4••	Q _{max} =60 NI/min Q _n = 30 NI/min Q _{max} =240 NI/min Q _n = 120 NI/min
Connections	Ø4 mm straight Push-in as standard Ø4 mm swivel Push-in on request M5 on request



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 supply to port 1 or port 3.

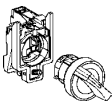






Spring return pushbuttons - Metal head version - Ø 4 mm straight fittings

	Symbol	Actuator	Return	Operating force at 6 bar. N	Flow NI/min	Weight kg	Order code
		Pushbutton Black	Spring	8.5 6.0	60 240	0.077 0.082	PXB-B3111BA2 PXB-B4131BA2
		Pushbutton Green	Spring	8.5 6.0	60 240	0.077 0.082	PXB-B3111BA3 PXB-B4131BA3
		Pushbutton Red	Spring	8.5 6.0	60 240	0.077 0.082	PXB-B3111BA4 PXB-B4131BA4
		Pushbutton Black	Spring	16.5 14.0	60 240	0.087 0.092	PXB-B3251BA2 PXB-B4231BA2

Mushroom head pushbuttons - Metal head version - Ø 4 mm straight fittings

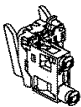

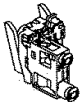

	Symbol	Actuator	Return	Operating force at 6 bar. N	Flow NI/min	Weight kg	Order code
		Pushbutton Ø40 mm Black	Spring	12 6.5	60 240	0.122 0.127	PXB-B3111BC2 PXB-B4131BC2
		Latching pushbutton Ø40 mm Red		48 42.5	60 240	0.125 0.127	PXB-B3111BT4 PXB-B4131BT4
		Latching pushbutton Ø40 mm Red		49 43.5	60 240	0.125 0.127	PXB-B3121BT4 PXB-B4131BT4

Selector switches - Metal head version - Ø 4 mm straight fittings

	Symbol	Actuator	Return	Flow Nl/min	Weight kg	Order code
		Latching selector button 2 positions, Black		60 240	0.092 0.097	PXB-B3111BD2 PXB-B4131BD2
		Latching selector button 2 positions, Black		60 240	0.102 0.107	PXB-B3211BD2 PXB-B4231BD2
		Latching selector button 2 positions, Black		60 240	0.102 0.107	PXB-3251BD2 PXB-B4231BD2
		Latching selector button 3 positions, Black		60 240	0.102 0.107	PXB-B3211BD3 PXB-B4231BD3
		Latching selector button 3 positions, Black		60 240	0.102 0.107	PXB-B3251BD3 PXB-B4231BD3
		Non latching selector button with long handle 3 positions, Black	Spring		60 240	0.103 0.108



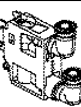





Switch bodies with operating metal head mounting - Ø 4 mm straight fittings

For use with ZB4 operating heads

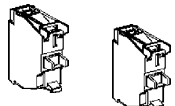


	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow Nl/min	Weight kg	Order code
		Plunger	Spring	7	60 240	0.048 0.053	PXB-B3111B PXB-B4131B
				4.5			
		Plunger	Spring	8	60 240	0.048 0.053	PXB-B3121B PXB-B4131B
				4.5			

Additional switch valves - Ø 4 mm straight fittings

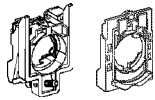
For use with ZB4 and ZB5 operating heads and mounting blocks

	Symbol	Actuator	Return	Operating force at 6 bar, N	Flow Nl/min	Weight kg	Order code
		Plunger Straight connection	Spring	7	60 240	0.010 0.015	PXB-B3911 PXB-B4931
				4.5			
		Plunger Straight connection	Spring	8	60 240	0.010 0.015	PXB-B3921 PXB-B4931
				4.5			
		Plunger Swivel connection	Spring	7	60 240	0.015 0.021	PXB-B3912 PXB-B4932
				4.5			
		Plunger Swivel connection	Spring	8	60 240	0.015 0.021	PXB-B3922 PXB-B4932
				4.5			

Electrical contact blocks

	Connections	Type of contact	Weight kg	Order code
	Can be combined with pneumatic valve blocks, enabling pneumatic and electric signals to be provided from a single control unit.	Normally open (NO) 	0.011	ZBE-101
		Normally closed (NC) 	0.011	ZBE-102




Mounting block for valves and operating heads

	Description	For Metal head ZB4		For Plastic head ZB5	
		Weight kg	Order code	Weight kg	Order code
	Mounting block for valves and operating heads: to make up a complete push button with one operating head and switch valves.	0.038	ZB4-BZ009	0.006	ZB5-AZ009


Operating heads

For use with PXB-B3. and PXB-B4. switch bodies


Spring return pushbuttons

	Description	Colour	Metal head		Plastic Head	
			Weight kg	Order code	Weight kg	Order code
	Flush	Black	0.029	ZB4-BA2	0.018	ZB5-AA2
		Green	0.029	ZB4-BA3	0.018	ZB5-AA3
		Red	0.029	ZB4-BA4	0.018	ZB5-AA4
		6 color caps	0.029	ZB4-BA9	0.018	ZB5-AA9
	Projecting	Black	0.030	ZB4-BL2	0.019	ZB5-AL2
		Green	0.030	ZB4-BL3	0.019	ZB5-AL3
		Red	0.030	ZB4-BL4	0.019	ZB5-AL4
	Flush booted	Black	0.034	ZB4-BP2		



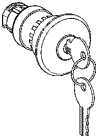
Push/push pushbuttons

	Description	Colour	Metal head			
			Weight kg	Order code		
	Flush	Black	0.029	ZB4-BH02		
		Green	0.029	ZB4-BH03		
		Red	0.029	ZB4-BH04		


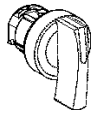

Double headed spring return pushbuttons

	Description	Colour Marking	Metal head			
			Weight kg	Order code		
	Flush	Green/Red I/O	0.047	ZB4-BA7341		

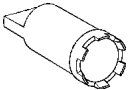
Spring return pushbuttons

	Description	Function	Colour	Metal head		Plastic Head	
				Weight kg	Order code	Weight kg	Order code
	Ø40 mm Mushroom head	Spring return	Black Green Red	0.074 0.074 0.074	ZB4-BC2 ZB4-BC3 ZB4-BC4		
		Latching push-pull	Red	0.077	ZB4-BT4		
	Ø60 mm Mushroom head	Spring return	Black	0.093	ZB4-BR2		
	Ø40 mm Mushroom head	Latching Turn to release	Red	0.070	ZB4-BS54	0.044	ZB5-AS54
		Latching Release by Ronis key N°455	Red	0.070	ZB4-BS14		

Selector switches

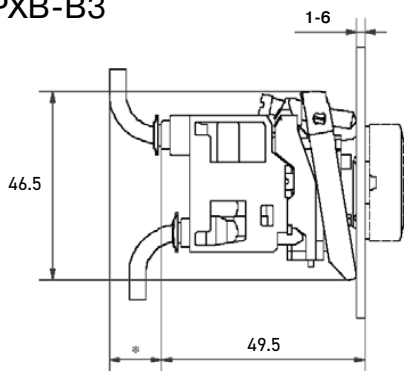
	Description	Function		Metal head		Plastic Head	
				Weight kg	Order code	Weight kg	Order code
	Standard, black handle	2 positions	Stay put	0.044	ZB4-BD2	0.024	ZB5-AD2
		3 positions	Stay put	0.044	ZB4-BD3	0.024	ZB5-AD3
		3 spring return to centre		0.044	ZB4-BD5	0.024	ZB5-AD5
	Long black handle	2 positions	Stay put	0.045	ZB4-BJ2		
		3 positions	Stay put	0.045	ZB4-BJ3		
			Spring return to centre	0.045	ZB4-BJ5		
			1 spring return from left to centre	0.045	ZB4-BJ7		
	Description	Function	Key with drawal	Weight kg	Order code		
	Key operated (Ronis key N° 455)	2 stay put positions	Left	0.069	ZB4-BG2		
			Left and right	0.069	ZB4-BG4		

Tools

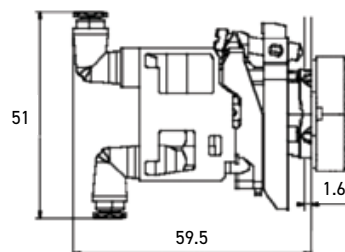
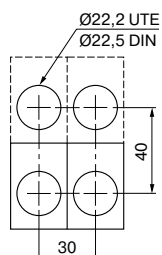
	Description	Weight kg	Order code		
	ZB5 head nut tool	0.160	ZB5-AZ905		

Dimensions

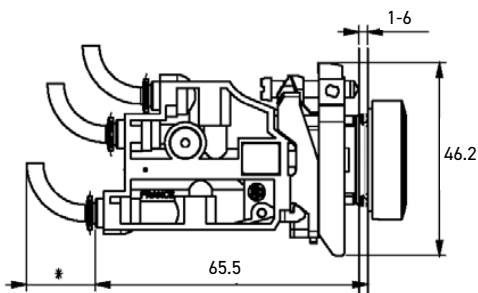
PXB-B3



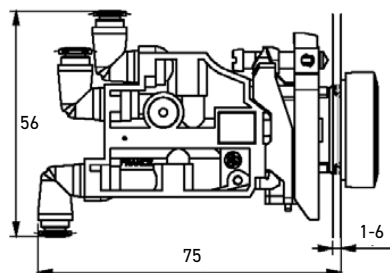
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



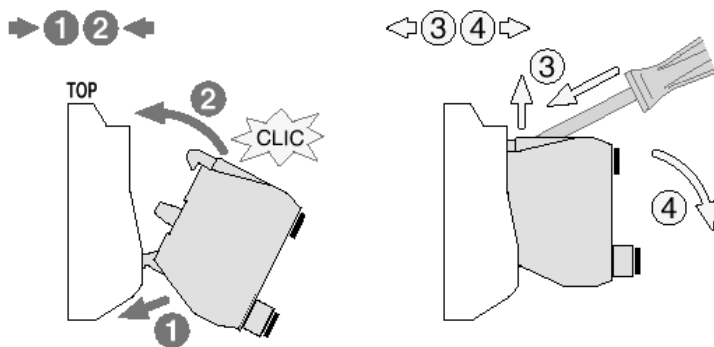
PXB-B4



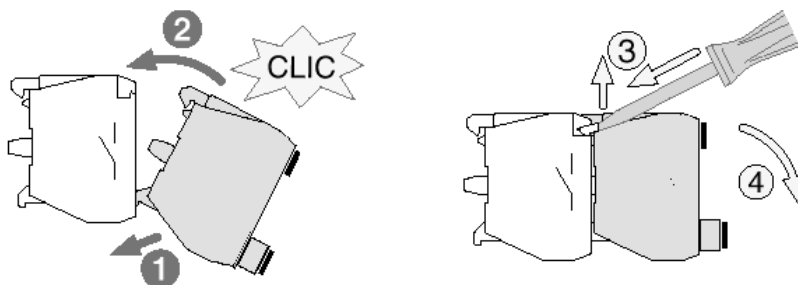
Body width 30 mm
 * With 2 x 4 mm tube = 10
 With 2,7 x 4 mm tube = 15



Assembling of PXB-B3. and PXB-B4. valves on mounting block



Assembling of PXB-B3. and PXB-B4. valves on the back of the electrical contact



VISUAL INDICATORS

Ø22 and Ø30 mm – PXV

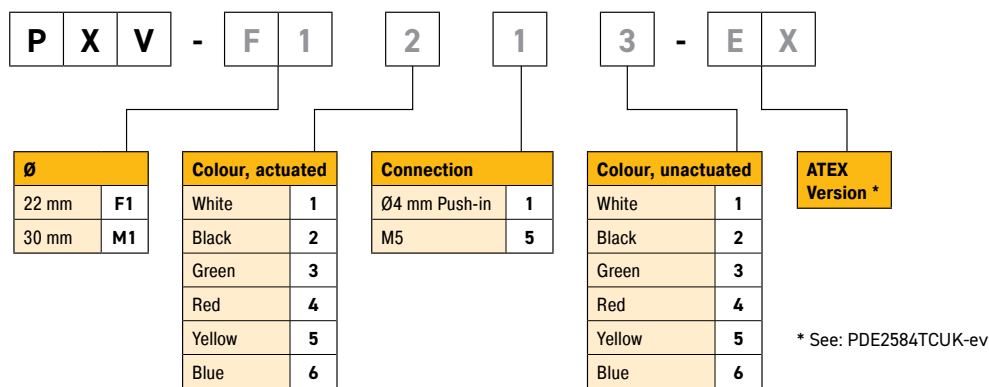
- Lightning fast response
- Simple long life mechanism
- Very high contrast
- All around visibility
- One single pipe connection
- Effective aid to diagnostics



Operating information	
Working pressure	1-8 bar
Working temperature	-15 °C to +60 °C

Operating and additional information	
Connections	Ø4 mm straight Push-in as standard

Order key



Ø22 mm Visual Indicators

Black plastic bezel In the actuated mode

Symbol	Colour *	Weight kg	Order code
	Green	0.080	PXV-F131
	Red	0.080	PXV-F141
	Yellow	0.080	PXV-F151
	Blue	0.080	PXV-F161
	White	0.080	PXV-F111

Ø22 mm Visual Indicators

Black plastic bezel In the unactuated mode

Symbol	Colour *	Weight kg	Order code
	Green	0.080	PXV-F1213
	Red	0.080	PXV-F1214
	Yellow	0.080	PXV-F1215
	Blue	0.080	PXV-F1216
	White	0.080	PXV-F1211

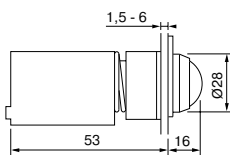
* The pneumatic indicators are black in one position and coloured in the other.
The coloured position corresponds either to the presence of pressure (actuated mode) or the absence of pressure (unactuated mode). For two different colours on the same indicator, please consult Technical Sales Department.

** Visual indicators Ø 30 mm on request.

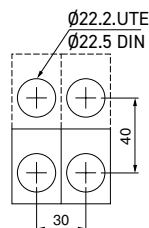
Dimensions

Ø22 mm visual indicators

PXV-F1..



Minimum distance between centres



TWO-HAND CONTROL UNITS

PXP

- Ergonomical design
- Robust polymer enclosure
- Meet requirements for protection against accidental operation and tampering
- Conforms to EN ISO 13851 (previous NF EN 574) requirements

These units are indispensable for ensuring that both operator's hands are occupied for reasons of safety. Both push-buttons must be operated simultaneously to produce an output signal.



Specification	
Valve body	High grade polymer
Seals	Nitrile, NBR
Enclosure	High grade polymer

Conformity to standard
Conformity to Machinery Directive n° 2006/42/EC EC type examination certificate issued by INERIS - Parc Technologique ALATA - F-60550 Verneuil en Halatte Notified body with identification no. 0080

Operating information	
Working pressure	3-8 bar
Working temperature	0 °C to +60 °C
Air quality	Air or inert gas, filtered ≤5μ (according to ISO 8573-1: 2010 Class 3:4:3) - lubricated
Simultaneity	>0.12s <0.5s



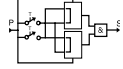
Description	Function	Order code	CE Type examination Certificate	Level of Compliance	
				EN ISO 13851	NF EN ISO 13849-1
Control module	Logic unit	PXP-A11-A	0080.5130.520.12.17.0066	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Single control	PXP-C111-A	0080.5130.520.12.17.0067	III A	Cat 1 PLc
Two-hand control device polyester enclosure	Dual control	PXP-D121-A	0080.5130.520.12.17.0069	III B	Cat 3 PLd

Control module only

	Symbol	Connections	Weight kg	Order code
		Ø4 mm Push-in	0.250	PXP-A11-A

Complete units

Polyester enclosure, with two mushrooms head pushbuttons and control module(s)

	Symbol	Connections	Number of control modules	Weight kg	Order code
		Ø4 mm Push-in	1	1.000	PXP-C111-A
		Ø4 mm Push-in	2	1.000	PXP-D121-A

* The pneumatic indicators are black in one position and coloured in the other.
The coloured position corresponds either to the presence of pressure (actuated mode) or the absence of pressure (unactuated mode). For two different colours on the same indicator, please consult Technical Sales Department.

** Visual indicators Ø 30 mm on request.

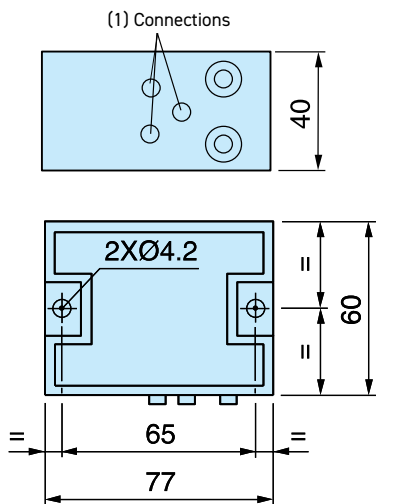
Spare parts for two-hand control units

Description	Base component	Weight kg	Order code
1 guard for two-hand control	PXP-C111-A PXP-D121-A	0.050	PPR-L15

Dimensions, two-hand control unit, PXP Series

All dimensions in mm unless otherwise stated

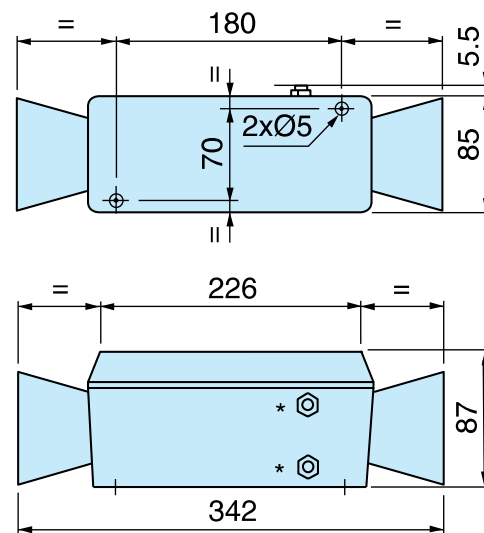
PXP-A11-A



(2) Pressure supply orifice \varnothing 4 mm (push-in)

(3) Output signal orifice \varnothing 4 mm (push-in)

PXP-C111-A and PXP-D121-A







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