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climate control  
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**pneumatics**  
process control  
sealing & shielding



# Pneumatic cylinders

Series PX

According to NFE49-001 and CNOMO 06-07-02


Catalogue PDE2530TCUK March 2011




ENGINEERING YOUR SUCCESS.

Features	Air cylinder	Hydraulic cylinder	Electro mechanical actuators
Overload safe	***	***	*
Easy to limit force	***	***	*
Easy to vary speed	***	***	*
Speed	***	**	**
Reliability	***	***	***
Robustness	***	***	*
Installation cost	***	*	**
Ease of service	***	**	*
Safety in damp environments	***	***	*
Safety in explosive atmospheres	***	***	*
Safety risk with electrical installations	***	***	*
Risk of oil leak	***	*	***
Clean, hygienic	***	**	*
Standardised measurements	***	***	*
Service life	***	***	*
Hydraulic system required	***	*	***
Weight	**	**	**
Purchase price	***	**	*
Power density	**	***	*
Noise level during operation	**	***	**
High force for size	**	***	*
Positioning possibilities	*	***	***
Total energy consumption	*	**	***
Service interval	*	**	***
Compressor capacity required	*	***	***


\* = good, \*\*=average, \*\*\*=excellent



**Important**  
 Before attempting any external or internal work on the cylinder or any connected components, make sure the cylinder is vented and disconnect the air supply in order to ensure isolation of the air supply.



**Note**  
 All technical data in this catalogue are typical data only.  
 Air quality is essential for maximum cylinder service life (see ISO 8573).



**WARNING**

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

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### **Cylinder family, PX**

- Conforms to NF E 49-001, CNOMO 06-07-02
- Long life conforming to the CNOMO E06.22.115N recommendation
- Operate with dry or non dry, lubricated or non lubricated air
- Hard anodised aluminium body as standard
- 25 to 125 mm bore
- Wide variety of options and moutings

## Technical Data

Cylinder Ø mm	Cushioning length mm	Speed maxi. m/s	Start pressure				Weight for 0 mm stroke kg	Weight per 10 mm kg
			Cushioned cylinder		Non cushioned cylinder			
			Outlet rod bar	Inlet rod bar	Outlet rod bar	Inlet rod bar		
25	15	2,0	0,60	0,65	0,50	0,55	0,373	0,026
32	17	2,0	0,60	0,60	0,40	0,45	0,410	0,033
40	24	2,0	0,60	0,60	0,40	0,45	0,860	0,055
50	26	1,5	0,36	0,40	0,20	0,25	1,130	0,067
63	30	1,0	0,36	0,40	0,20	0,25	1,270	0,106
80	30	1,0	0,24	0,25	0,15	0,17	2,700	0,115
100	30	1,0	0,24	0,25	0,13	0,15	4,630	0,156
125	30	0,6	0,15	0,17	0,10	0,12	7,000	0,188

Cylinder Ø mm	Section		Theoretical pressure <sup>1)</sup> at 6 bar		Air consumption <sup>2)</sup> l
	outlet rod cm <sup>2</sup>	inlet rod cm <sup>2</sup>	outlet rod N	inlet rod N	
25	4,91	3,78	290	230	0,061
32	8,04	6,91	480	410	0,105
40	12,57	10,56	750	630	0,162
50	19,63	16,49	1180	990	0,253
63	31,17	28,03	1870	1680	0,414
80	50,27	45,36	3020	2720	0,669
100	78,54	73,63	4710	4420	1,065
125	122,72	114,68	7360	6880	1,662

1) Piston pressure values are theoretical and must be adapted according to use conditions

2) Air consumption by 10 mm stroke for a duplicate stroke at 6 bar

## Material specification

	Standard version	
Body	Anodised aluminium	
Tie rod	Stainless steel	
End caps	Aluminium	
Piston rod nut	Zinc plated steel	
Piston rod	Stainless steel	
Piston rod bearing	Self lubricating sintered bronze	
Piston	Aluminium alloy	
Wear rings	Acetal (self lubricating)	
Magnet ring	Encapsulated ferrite Ø 32 à 100 mm	
Seals	Polyuréthane	FPM
Bearings	Acétal (T < 80 °C)	Brass (T < 150 °C)
Piston rod nut	Zinc plated steel	Stainless steel
Tie rod nut	Zinc plated steel	Stainless steel
Cushion screw	Stainless steel	

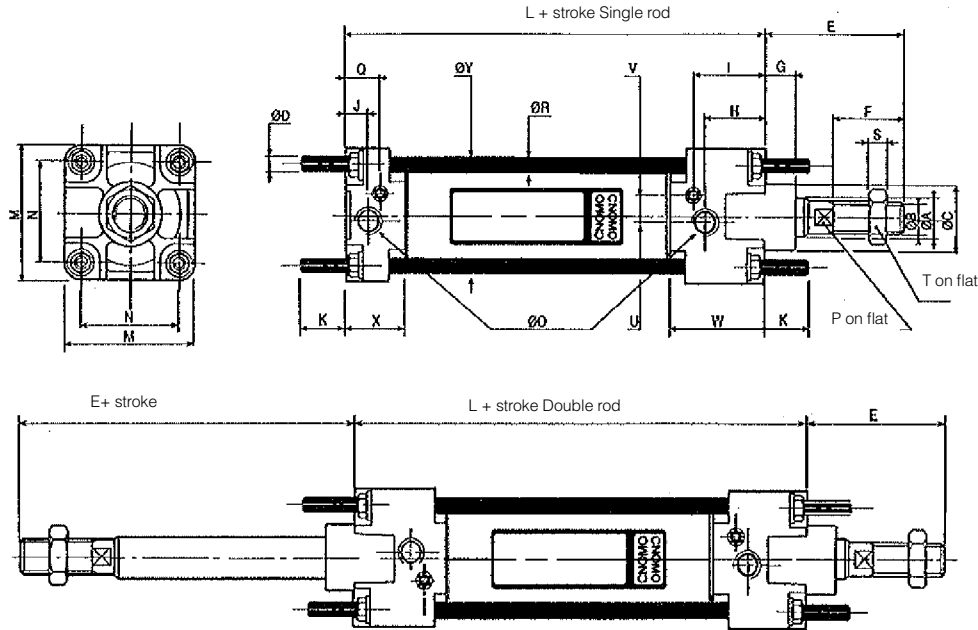
## Conditions of use

Pressure range	1 to 12 bar	
Temperature range	mini.	maxi.
Standard	-20 °C	+80 °C
High temperature	-20 °C	+150 °C
Storage temperature	mini.	maxi.
Standard	-40 °C	+80 °C
Recommended lubricant	Mineral oils ISO VG 22 or VG 32, class HM	
Air quality	Filtrated air 40 µ lubricated or not	

Pre-lubricated : Further lubrication is not necessary

In case of additional lubrication, repeat lubrication at regular intervals

**Dimensions cylinders**



Cylinder Ø mm	ØA* mm	ØB* mm	ØC* mm	ØD* mm	E* mm	F* mm	G* mm	H mm	I mm	J mm	K* mm	L* mm
25	12	M10 x 1,50	25	M6 x 1,00	45	20	15	19	23	9	17	80
32	12	M10 x 1,50	25	M6 x 1,00	45	20	15	19	23	9	17	80
40	18	M16 x 1,50	32	M6 x 1,00	70	36	15	30	39	11	17	110
50	18	M16 x 1,50	32	M8 x 1,25	70	36	15	30	36	11	23	110
63	22	M20 x 1,50	45	M8 x 1,25	85	46	20	30	41	13	23	125
80	22	M20 x 1,50	45	M10 x 1,50	85	46	20	31	42	13	28	125
100	30	M27 x 2,00	55	M10 x 1,50	110	63	20	42	49	15	28	145
125	30	M27 x 2,00	55	M12 x 1,75	110	63	20	35	40	16	34	145

Cylinder Ø mm	L1* mm	M* mm	N* mm	ØO* mm	P* mm	Q mm	ØR mm	ØR(1) mm	S* mm	T* mm	U mm	V mm	W mm	X mm	ØY mm
25	90	40	28	1/8	8	13	5,4	5,3	5,0	17	1,0	7,0	34,5	24,5	29
32	90	45	33	1/8	8	13	5,4	5,3	5,0	17	3,5	8,0	31,5	21,5	36
40	129	52	40	1/4	13	20	5,4	5,3	8,0	24	2,0	8,0	48,0	29,0	45
50	129	65	49	1/4	13	17	7,2	7,15	8,0	24	3,0	10,0	48,0	29,0	55
63	143	75	59	3/8	17	24	7,2	7,15	10,0	30	0,0	13,0	52,0	34,0	68
80	143	95	75	3/8	17	24	9,0	9,0	10,0	30	0,0	13,0	50,0	32,0	86
100	164	115	90	1/2	22	22	9,0	9,0	13,5	41	0,0	18,5	57,0	38,0	106
125	164	140	110	1/2	22	21	10,8	10,8	13,5	41	0,0	23,0	52,0	33,0	132

\* Standard dimensions

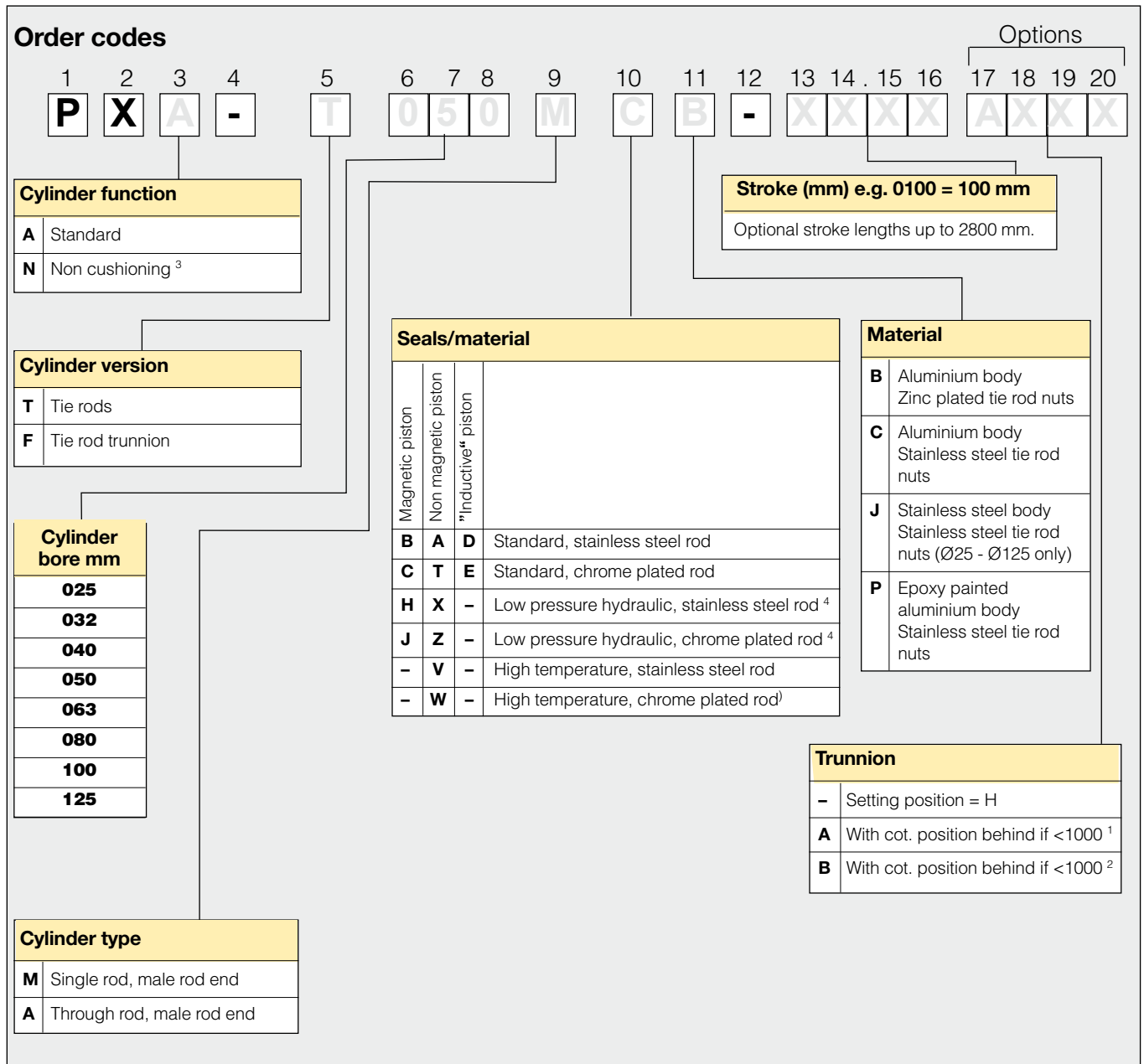
**Tolerances on strokes**

Cylinder Ø mm	Tolerance stroke > 1000 mm mm	Tolerance 1000 mm <stroke> 2000 mm mm
25	0 / +2,0	0 / +3,2
32	0 / +2,0	0 / +3,2
40	0 / +2,0	0 / +3,2
50	0 / +2,0	0 / +3,2
63	0 / +2,0	0 / +4,0
80	0 / +2,0	0 / +4,0
100	0 / +2,0	0 / +4,0
125	0 / +2,0	0 / +5,0

**Maximum strokes**

Maximum strokes = 2800 mm

# Pneumatic Cylinders - Series PX



- XXXX = Stroke in mm 4 digits (digits 13 to 16)
- XXX = Trunnion position or overlenght rod
- 1 A = Trunnion axis perpendicular to cylinder supply holes
- 2 B = Trunnion axis in line with cylinder supply holes
- 3 = Only for hydraulic version
- 4 = Only in combination with cylinder function "N"

"Inductive" piston = metal detection ring

## Working medium, air quality

Working medium Dry, filtered compressed air to ISO 8573-1 class 3.4.3.

### Recommended air quality for cylinders

For best possible service life and trouble-free operation, ISO 8573-1 quality class 3.4.3 should be used. This means 5 µm filter (standard filter) dew point +3 °C for indoor operation (a lower dew point should be selected for outdoor operation) and oil concentration 1.0 mg oil/m<sup>3</sup>, which is what a standard compressor with a standard filter gives.

### ISO 8573-1 quality classes

Quality class	Pollution particle size (µm)	max concentration (mg/m <sup>3</sup> )	Water max. press. dew point (°C)	Oil max concentration (mg/m <sup>3</sup> )
<b>1</b>	0,1	0,1	-70	0,01
<b>2</b>	1	1	-40	0,1
<b>3</b>	5	5	-20	1,0
<b>4</b>	15	8	+3	5,0
<b>5</b>	40	10	+7	25
<b>6</b>	-	-	+10	-



## Pneumatic Cylinders - Series PX

## PX Cylinders standard version

Ø 25 à 100 mm : Magnetic cushioned cylinder, aluminum body, chrome plated steel rod

Ø 125 à 200 mm : Non magnetic cushioned cylinder, aluminum body, chrome plated steel rod

Cylinder Ø mm	Stroke mm	Order code
<b>25</b> Conn. G1/8	25	PXA-T025MCB-0025
	50	PXA-T025MCB-0050
	75	PXA-T025MCB-0075
	100	PXA-T025MCB-0100
	125	PXA-T025MCB-0125
	150	PXA-T025MCB-0150
	200	PXA-T025MCB-0200
	250	PXA-T025MCB-0250
	300	PXA-T025MCB-0300
	400	PXA-T025MCB-0400
500	PXA-T025MCB-0500	
<b>32</b> Conn. G1/8	25	PXA-T032MCB-0025
	50	PXA-T032MCB-0050
	75	PXA-T032MCB-0075
	100	PXA-T032MCB-0100
	125	PXA-T032MCB-0125
	150	PXA-T032MCB-0150
	200	PXA-T032MCB-0200
	250	PXA-T032MCB-0250
	300	PXA-T032MCB-0300
	400	PXA-T032MCB-0400
500	PXA-T032MCB-0500	
<b>40</b> Conn. G1/4	25	PXA-T040MCB-0025
	50	PXA-T040MCB-0050
	75	PXA-T040MCB-0075
	100	PXA-T040MCB-0100
	125	PXA-T040MCB-0125
	150	PXA-T040MCB-0150
	200	PXA-T040MCB-0200
	250	PXA-T040MCB-0250
	300	PXA-T040MCB-0300
	400	PXA-T040MCB-0400
500	PXA-T040MCB-0500	
<b>50</b> Conn. G1/4	25	PXA-T050MCB-0025
	50	PXA-T050MCB-0050
	75	PXA-T050MCB-0075
	100	PXA-T050MCB-0100
	125	PXA-T050MCB-0125
	150	PXA-T050MCB-0150
	200	PXA-T050MCB-0200
	250	PXA-T050MCB-0250
	300	PXA-T050MCB-0300
	400	PXA-T050MCB-0400
500	PXA-T050MCB-0500	
<b>63</b> Conn. G3/8	25	PXA-T063MCB-0025
	50	PXA-T063MCB-0050
	75	PXA-T063MCB-0075
	100	PXA-T063MCB-0100
	125	PXA-T063MCB-0125
	150	PXA-T063MCB-0150
	200	PXA-T063MCB-0200
	250	PXA-T063MCB-0250
	300	PXA-T063MCB-0300
	400	PXA-T063MCB-0400
500	PXA-T063MCB-0500	
600	PXA-T063MCB-0600	

Cylinder Ø mm	Stroke mm	Order code
<b>80</b> Conn. G3/8	25	PXA-T080MCB-0025
	50	PXA-T080MCB-0050
	75	PXA-T080MCB-0075
	100	PXA-T080MCB-0100
	125	PXA-T080MCB-0125
	150	PXA-T080MCB-0150
	200	PXA-T080MCB-0200
	250	PXA-T080MCB-0250
	300	PXA-T080MCB-0300
	400	PXA-T080MCB-0400
500	PXA-T080MCB-0500	
600	PXA-T080MCB-0600	
<b>100</b> Conn. G1/2	25	PXA-T100MCB-0025
	50	PXA-T100MCB-0050
	75	PXA-T100MCB-0075
	100	PXA-T100MCB-0100
	125	PXA-T100MCB-0125
	150	PXA-T100MCB-0150
	200	PXA-T100MCB-0200
	250	PXA-T100MCB-0250
	300	PXA-T100MCB-0300
	400	PXA-T100MCB-0400
500	PXA-T100MCB-0500	
600	PXA-T100MCB-0600	
<b>125</b> Conn. G1/2	50	PXA-T125MTB-0050
	75	PXA-T125MTB-0075
	100	PXA-T125MTB-0100
	125	PXA-T125MTB-0125
	150	PXA-T125MTB-0150
	200	PXA-T125MTB-0200
	250	PXA-T125MTB-0250
	300	PXA-T125MTB-0300
	400	PXA-T125MTB-0400
	500	PXA-T125MTB-0500



## New drop-in sensors

The completely new "drop-in" 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. 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.

### Technical data

Design	GMR (Giant Magnetic Resistance) magneto-resistive function
Installation	From side, down into the sensor groove, so-called drop-in
Outputs	PNP, normally open (also available in NPN design, normally closed, on request)
Voltage range	10-30 VDC 10-18 V DC, ATEX sensor
Ripple	max 10%
Voltage drop	max 2,5 V
Load current	max 100 mA
Internal consumption	max 10 mA
Actuating distance	min 9 mm
Hysteresis	max 1,5 mm
Repeatability accuracy	max 0,2 mm
On/off switching frequency	max 5 kHz
On switching time	max 2 ms
Off switching time	max 2 ms
Encapsulation	IP 67 (EN 60529)
Temperature range	-25 °C to +75 °C -20 °C to +45 °C, ATEX sensor
Indication	LED, yellow
Material housing	PA 12
Material screw	Stainless steel
Cable	PVC or PUR 3x0.25 mm <sup>2</sup> see order code respectively

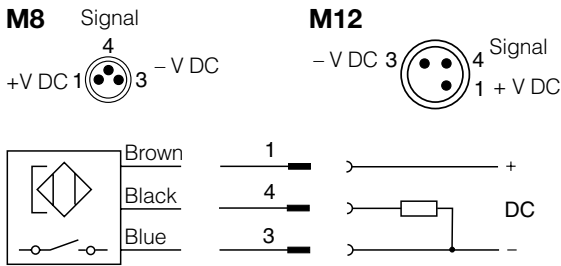
## Reed sensors

The sensors are based on proven reed switches, which offer reliable function in many applications. Simple installation, a protected position on the cylinder and clear LED indication are important advantages of this range of sensors.

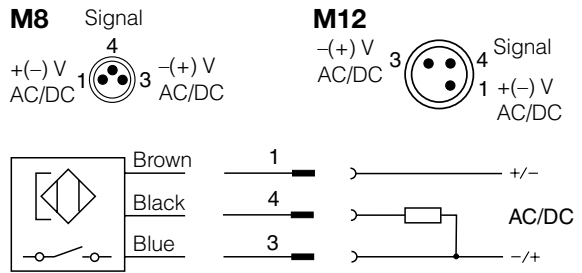
### Technical data

Design	Reed element
Mounting	From side, down into the sensor groove, so-called drop-in
Output	Normally open , or normally closed
Voltage range	10-30 V AC/DC or 10-120 V AC/DC 24-230 V AC/DC
Load current	max 500 mA for 10-30 V or max 100 mA for 10-120 V max 30 mA for 24-230 V
Breaking power (resistive)	max 6 WVA
Actuating distance	min 9 mm
Hysteresis	max 1,5 mm
Repeatability accuracy	0,2 mm
On/off switching frequency	max 400 Hz
On switching time	max 1,5 ms
Off switching time	max 0,5 ms
Encapsulation	IP 67 (EN 60529)
Temperature range	-25 °C to +75 °C
Indication	LED, yellow
Material housing	PA12
Material screw	Stainless steel
Cable	PVC or PUR 3x0.14 mm <sup>2</sup> see order code respectively

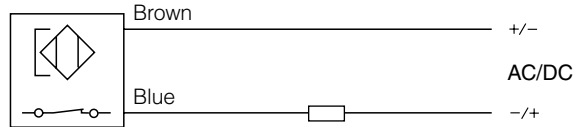
Electronic sensors



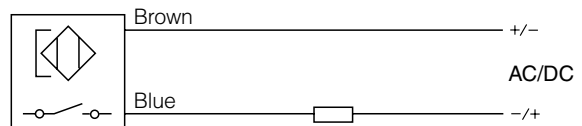
Reed sensors



P8S-GCFPX

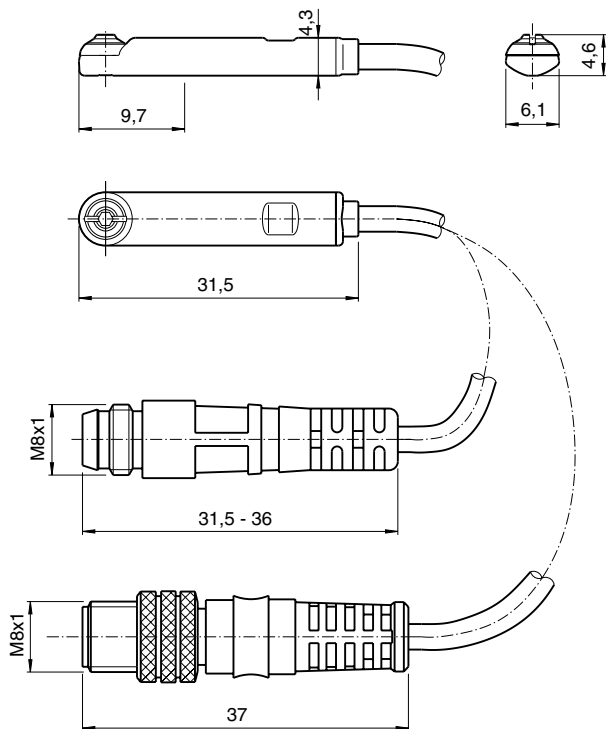


P8S-GRFLX / P8S-GRFLX2

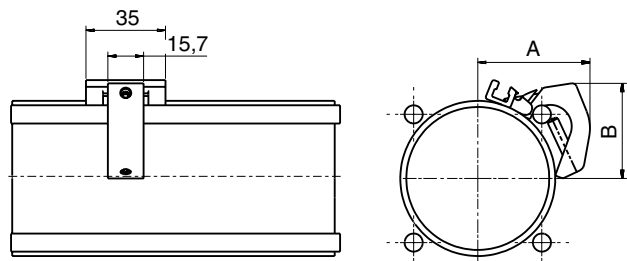


Dimensions

Sensors




Adapter for PX




Cyl. bore mm	A mm	B mm
25	31	23
32	35	26
40	39	30
50	44	30
63	50	42
80	54	52
100	62	60
125	74	69
160	95	90
200	112	107

## Ordering data

Output/function	Cable/connector	Weight kg	Order code
<b>Electronic sensors , 10-30 V DC</b>			
PNP type, normally open	0,27 m PUR-cable and 8 mm snap-in male connector	0,007	<b>P8S-GPSHX</b>
PNP type, normally open	1,0 m PUR-cable and 8 mm snap-in male connector	0,013	<b>P8S-GPSCX</b>
PNP type, normally open	1,0 m PUR-cable and M8 screw male connector	0,013	<b>P8S-GPCCX</b>
PNP type, normally open	0,27 m PUR-cable and M12 screw male connector	0,015	<b>P8S-GPMHX</b>
PNP type, normally open	3 m PVC-cable without connector	0,030	<b>P8S-GPFLX</b>
PNP type, normally open	10 m PVC-cable without connector	0,110	<b>P8S-GPFTX</b>
<b>Electronic sensor 18-30 V DC</b>			
<b>ATEX-certified</b>			
			
Type PNP , normally open	3 m PVC-cable without connector	0,030	<b>P8S-GPFLX/EX</b>
<b>Reed sensors , 10-30 V AC/DC</b>			
Normally open	0,27 m PUR-cable and 8 mm snap-in male connector	0,007	<b>P8S-GSSHX</b>
Normally open	1,0 m PUR-cable and 8 mm snap-in male connector	0,013	<b>P8S-GSSCX</b>
Normally open	1,0 m PUR-cable and M8 male connector	0,013	<b>P8S-GSCCX</b>
Normally open	0,27 m PUR-cable and M12 screw male connector	0,015	<b>P8S-GSMHX</b>
Normally open	1,0 m PUR-cable and M12 screw male connector	0,023	<b>P8S-GSMCX</b>
Normally open	3 m PVC-cable without connector	0,030	<b>P8S-GSFLX</b>
Normally open	10 m PVC-cable without connector	0,110	<b>P8S-GSFTX</b>
Normally closed	5m PVC-cable without connector <sup>1)</sup>	0,050	<b>P8S-GCFPX</b>
<b>Reed sensors, 10-120 V AC/DC</b>			
Normally open	3 m PVC-cable without connector	0,030	<b>P8S-GRFLX</b>
<b>Reed sensorer, 24-230 V AC/DC</b>			
Normally open	3 m PVC-cable without connector	0,030	<b>P8S-GRFLX2</b>

1) Without LED

## Adapter for tie-rod design

Description	Weight kg	Order code
Double jointed adapter for cylinder PX cylinder bore Ø25 to Ø200 mm	0,07	<b>P8S-TMA0X</b>
		

**Connecting cables with one connector**

The cables have an integral snap-in female connector.



Type of cable	Cable/connector	Weight kg	Order code
<b>Cables for sensors, complete with one female connector</b>			
Cable, Flex PVC	3 m, 8 mm Snap-in connector	0,07	<b>9126344341</b>
Cable, Flex PVC	10 m, 8 mm Snap-in connector	0,21	<b>9126344342</b>
Cable, Super Flex PVC	3 m, 8 mm Snap-in connector	0,07	<b>9126344343</b>
Cable, Super Flex PVC	10 m, 8 mm Snap-in connector	0,21	<b>9126344344</b>
Cable, Polyurethane	3 m, 8 mm Snap-in connector	0,01	<b>9126344345</b>
Cable, Polyurethane	10 m, 8 mm Snap-in connector	0,20	<b>9126344346</b>
Cable, Polyurethane	5 m, M12 screw connector	0,07	<b>9126344348</b>
Cable, Polyurethane	10 m, M12 screw connector	0,20	<b>9126344349</b>

**Male connectors for connecting cables**

Cable connectors for producing your own connecting cables. The connectors can be quickly attached to the cable without special tools. Only the outer sheath of the cable is removed. The connectors are available for M8 and M12 screw connectors and meet protection class IP 65.



Connector	Weight kg	Order code
M8 screw connector	0,017	<b>P8CS0803J</b>
M12 screw connector	0,022	<b>P8CS1204J</b>

**Ready to use connecting cables with connectors at each end**

As accessories the system comprises a large number of different cables in order to meet all requirements that may arise and to make the installation simple, fast and reliable. Cables with moulded 8 mm snap-in round contacts in both ends. The cables are available in two types, one with a straight male and female connectors respectively, and one with a straight 3-pole male connector in one end and an angled 3-pole female connector in the other end.



**Technical data**

**Contacts**

Moulded 8 mm snap-in male/female contacts.

Enclosure IP67

**Cable**

Conductor 3x0,25 mm<sup>2</sup> (32x0,10 mm<sup>2</sup>)

Sheath PVC/PUR

Colour Black

Cables with straight 3-pole male and female connectors respectively.



Cables with a straight 3-pole male connector in one end and an angled 3-pole female connector in the other end.



Designation	Weight kg	Order code
Cable with straight contacts, 0,2 m	0,02	<b>9121717014</b>
Cable with straight contacts, 0,3 m	0,02	<b>9121717015</b>
Cable with straight contacts, 0,5 m	0,03	<b>9121717016</b>
Cable with straight contacts, 1,0 m	0,03	<b>9121717017</b>
Cable with straight contacts, 2,0 m	0,05	<b>9121717018</b>
Cable with straight contacts, 3,0 m	0,07	<b>9121717019</b>
Cable with straight contacts, 5,0 m	0,12	<b>9121717020</b>
Cable with straight contacts, 10 m	0,23	<b>9121717021</b>

Designation	Weight kg	Order code
Cable with straight and angled connectors, 0,2 m	0,02	<b>9121717022</b>
Cable with straight and angled connectors, 0,3 m	0,02	<b>9121717023</b>
Cable with straight and angled connectors, 0,5 m	0,03	<b>9121717024</b>
Cable with straight and angled connectors, 1,0 m	0,03	<b>9121717025</b>
Cable with straight and angled connectors, 2,0 m	0,05	<b>9121717026</b>
Cable with straight and angled connectors, 3,0 m	0,07	<b>9121717027</b>
Cable with straight and angled connectors, 5,0 m	0,12	<b>9121717028</b>
Cable with straight and angled connectors, 10 m	0,23	<b>9121717029</b>

### Connection block Valvetronic 110

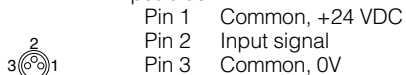
The Valvetronic 110 is a connection block that can be used for collecting signals from sensors at various points on a machine and connecting them to the control system via a multicore cable. Valvetronic 110 can also be used for central connection of the multi-core cable to the outputs of a control system, and can be laid to a machine where the output signals can be connected. The connection block has ten 8 mm snap-in circular connectors and a multi-core cable which is available in lengths of 3 or 10 m. The connections on the block are numbered from 1 to 10. Blanking plugs are available for unused connections, as labels for marking the connections of each block.



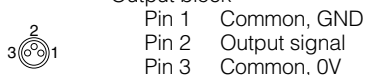
### Technical data

#### Connections:

Ten 3-pole numbered 8 mm round snap-in female contacts  
Input block



Output block



#### Electrical data:

Voltage 24 VDC (max. 60 V AC/75 V DC)  
Insulation group according to DIN 0110 class C  
Load max. 1 A per connection  
total max. 3 A

#### Cable:

Length 3 m or 10 m  
Type of cable LifYY11Y  
Conductor 12  
Area 0.34 mm<sup>2</sup>  
Colour marking According to DIN 47 100

#### Mechanical data

Enclosure IP 67, DIN 40050 with fitted contacts and/or blanking plugs.  
Temperature -20 °C to +70 °C

#### Material

Body PA 6,6 VD according to UL 94  
Contact holder PBTP  
Snap-in ring LDPE  
Moulding mass Epoxy  
Seal NBR  
Screws Plated steel

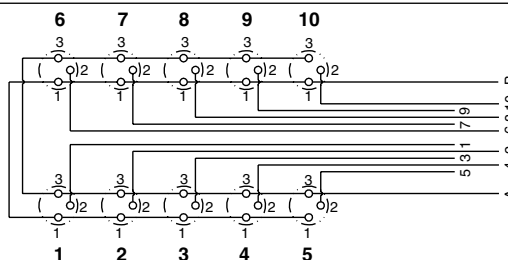
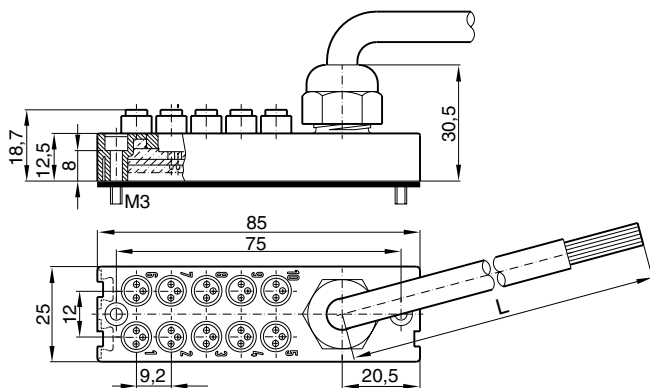
#### Industrial durability

Good chemical and oil resistance. Tests should be performed in aggressive environments.

### Ordering data

	Designation	Weight kg	Order code
	Connection block Valvetronic 110 with 3 m cable	0,32	<b>9121719001</b>
	Connection block Valvetronic 110 with 10 m cable	0,95	<b>9121719002</b>
	Blanking plugs (pack of 10) Use blanking plugs to close unused connections.	0,02	<b>9121719003</b>
	Labels (pack of 10) White labels to insert in grooves on the side of the connection	0,02	<b>9121719004</b>

### Dimensions and wiring diagrams

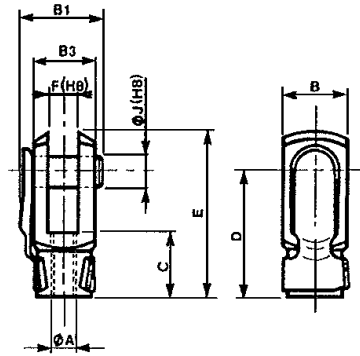


Conductor	Colour	Input	Output
1	Pink	Signal 1	Signal 1
2	Grey	Signal 2	Signal 2
3	Yellow	Signal 3	Signal 3
4	Green	Signal 4	Signal 4
5	White	Signal 5	Signal 5
6	Red	Signal 6	Signal 6
7	Black	Signal 7	Signal 7
8	Violet	Signal 8	Signal 8
9	Grey-Pink	Signal 9	Signal 9
10	Red-Blue	Signal 10	Signal 10
A	Blue	0 V	0 V
B	Brown	+24 V	PE

**Female clevis bracket**  
Type CNOMO 06.07.14

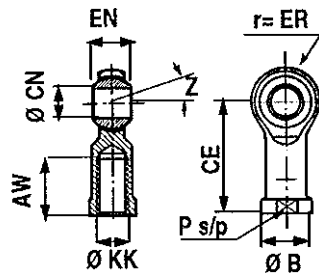


Material : Steel, zinc plated



Ø mm	Weight kg	Order code
25	0,09	<b>FE10X150</b>
32	0,09	<b>FE10X150</b>
40	0,25	<b>FE16X150</b>
50	0,25	<b>FE16X150</b>
63	0,53	<b>FE20X150</b>
80	0,53	<b>FE20X150</b>
100	1,13	<b>FE27X200</b>
125	1,13	<b>FE27X200</b>

**Swivel rod eye**



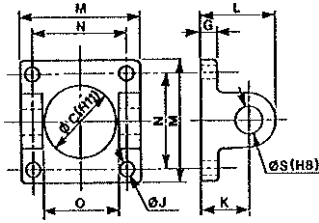
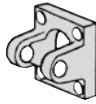
Ø mm	Weight kg	Order code
25	0,77	<b>FER10X150</b>
32	0,77	<b>FER10X150</b>
40	0,22	<b>P1C-4MRS</b>
50	0,22	<b>P1C-4MRS</b>
63	0,42	<b>P1C-4PRS</b>
80	0,42	<b>P1C-4PRS</b>
100	1,10	<b>P1C-4RRS</b>
125	1,10	<b>P1C-4RRS</b>

Material : Steel, zinc plated

Ø mm	ØKK mm	AW mm	B mm	C mm	CE mm	CN (H7) mm	D mm	EN mm	ER mm	P mm	Z mm
25	M10 x 1,50	20	19	12,9	43	10	15	14 <sup>0</sup>	14	17	13
32	M10 x 1,50	20	19	12,9	43	10	15	14 <sup>-0,12</sup>	14	17	13
40	M16 x 1,50	28	28	19,3	64	16	23	21	21	22	15
50	M16 x 1,50	28	28	19,3	64	16	23	21	21	22	15
63	M20 x 1,50	33	35	24,3	77	20	26	25	25	30	14
80	M20 x 1,50	33	35	24,3	77	20	26	25	25	30	14
100	M27 x 2,00	51	50	34,8	110	30	37	37	37	41	17
125	M27 x 2,00	51	50	34,8	110	30	37	37	37	41	17

\* Standard dimensions

**Female hinge**  
Type CNOMO 06.07.09

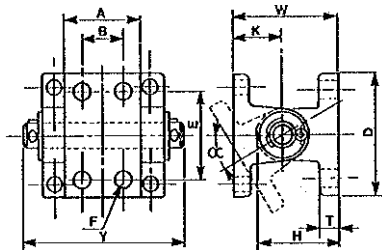
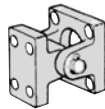


Material : Cast iron, black painted

Ø	ØC*	G*	ØJ*	K*	L*	M*	N*	O*	ØS*
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
25	25	8	7	18	26	40	28	26	8
32	25	8	7	18	26	45	33	26	8
40	32	8	7	24	36	52	40	33	12
50	32	10	9	26	38	65	49	33	12
63	45	10	9	30	46	75	59	47	16
80	45	12	11	32	48	95	75	47	16
100	55	12	11	37	57	115	90	57	20
125	55	16	14	41	61	140	110	57	20

\* Standard dimensions

**Male and female hinge**  
Type CNOMO 06.07.10



Material : Cast iron, black painted, Pin: Hardened steel

Ø	A*	B*	D*	E*	ØF*	H*	K	T*	W	Y	x
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
25	25	0	40	28	7	26	18	8	36	51.5	30°
32	25	0	40	28	7	26	18	8	36	56.5	30°
40	32	16	52	38	9	38	24	10	50	69.5	25°
50	32	16	52	38	9	38	26	10	52	82.5	30°
63	46	25	75	54	11	50	30	12	64	98.0	30°
80	46	25	75	54	11	50	32	12	66	118.0	30°
100	56	32	115	90	14	61	37	16	78	142.0	30°
125	56	32	115	90	14	61	41	16	82	167.0	30°

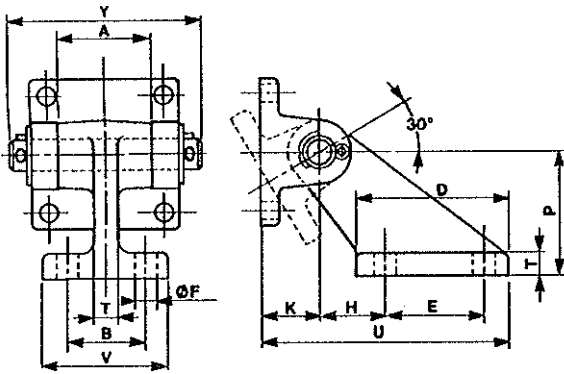
\* Standard dimensions

Ø	Weight	Order code
mm	kg	
25	0,70	<b>AF025</b>
32	1,10	<b>AF032</b>
40	1,35	<b>AF040</b>
50	0,33	<b>AF050</b>
63	0,45	<b>AF063</b>
80	0,90	<b>AF080</b>
100	1,47	<b>AF100</b>
125	2,66	<b>AF125</b>

Ø	Weight	Order code
mm	kg	
25	0,70	<b>AFM025</b>
32	1,10	<b>AFM032</b>
40	1,35	<b>AFM040</b>
50	0,33	<b>AFM050</b>
63	0,45	<b>AFM063</b>
80	0,90	<b>AFM080</b>
100	1,47	<b>AFM100</b>
125	2,66	<b>AFM125</b>



**Female hinge**  
Type CNOMO 06.07.11



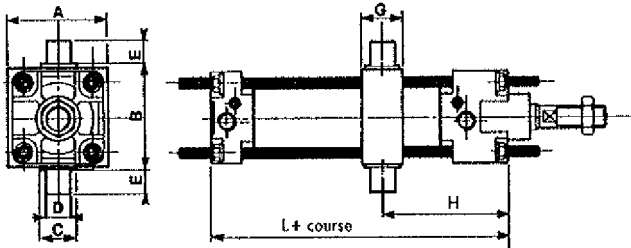
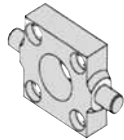
Ø mm	Weight kg	Order code
25	0,70	<b>AFME025</b>
32	1,10	<b>AFME032</b>
40	1,35	<b>AFME040</b>
50	0,33	<b>AFME050</b>
63	0,45	<b>AFME063</b>
80	0,90	<b>AFME080</b>
100	1,47	<b>AFME100</b>
125	2,66	<b>AFME125</b>
160	5,82	<b>AFME160</b>
200	9,07	<b>AFME200</b>

Material : Cast iron, black painted, Pin: Hardened steel

Ø mm	A* mm	B* mm	D* mm	E* mm	ØF* mm	H* mm	K* mm	P* mm	T* mm	U mm	V* mm	Y mm
25	25	25	37	20	7	18	18	32	8	65	41	52
32	25	25	37	20	7	18	18	32	8	65	41	57
40	32	32	54	32	9	25	24	45	10	92	52	70
50	32	32	54	32	9	25	26	45	10	94	52	83
63	46	40	75	50	11	32	30	63	12	125	63	98
80	46	40	75	50	11	32	32	63	12	127	63	118
100	56	50	103	70	14	40	37	90	16	164	80	142
125	56	50	103	70	14	40	41	90	16	168	80	167
160	71	63	154	110	18	50	55	140	20	237	103	211
200	71	63	154	110	18	50	55	140	20	237	103	251

\* Standard dimensions

**Male trunnion**  
Type CNOMO 06.07.12



Material : Steel, zinc plated

Ø mm	A* mm	B* mm	ØC* mm	ØD* mm	E* mm	G* mm	H mini mm	H1	H2	L* mm
25	38	42	20	12	12	22	46	46	46	80
32	46	50	20	12	12	22	43	46	48	80
40	58	63	25	16	16	30	63	65	66	110
50	68	73	25	16	16	30	63	65	66	110
63	84	90	30	20	20	35	70	72	74	125
80	102	108	30	20	20	35	68	72	76	125
100	124	131	36	25	25	40	77	82	87	145
125	152	159	36	25	25	40	72	82	92	145
160	190	200	45	32	32	70	95	90	85	180
200	242	250	45	32	32	70	95	90	85	180

**Hstd = H1 + stroke / 2**

**H maxi = H2 + stroke**

**Trunnion position H ± 1 mm**

- Configuration see page 7

\* Standard dimensions

Steel piston rod locknut



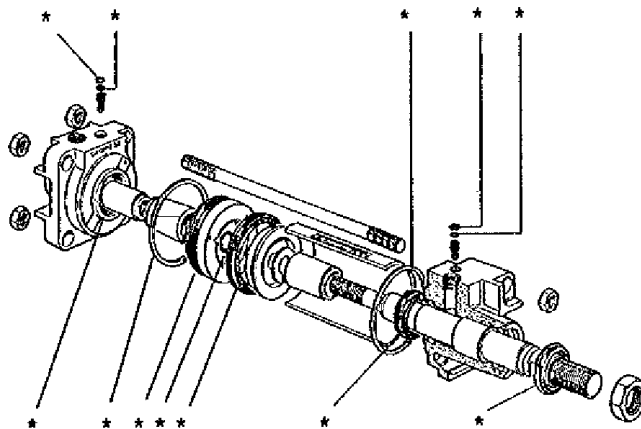
Ø mm	Weight kg	Order code
25	0,006	<b>9813200</b>
32	0,006	<b>9813200</b>
40	0,018	<b>9128985603</b>
50	0,018	<b>9128985603</b>
63	0,035	<b>0261109911</b>
80	0,035	<b>0261109911</b>
100	0,087	<b>9128985607</b>
125	0,087	<b>9128985607</b>

Stainless steel piston rod locknut



Ø mm	Weight kg	Order code
25	0,006	<b>9813200N</b>
32	0,006	<b>9813200N</b>
40	0,020	<b>9126725406</b>
50	0,020	<b>9126725406</b>
63	0,036	<b>0261109921</b>
80	0,036	<b>0261109921</b>
100	0,093	<b>0261109922</b>
125	0,093	<b>0261109922</b>

Repair kit



Components marked (\*) are part of the bellow repair kits

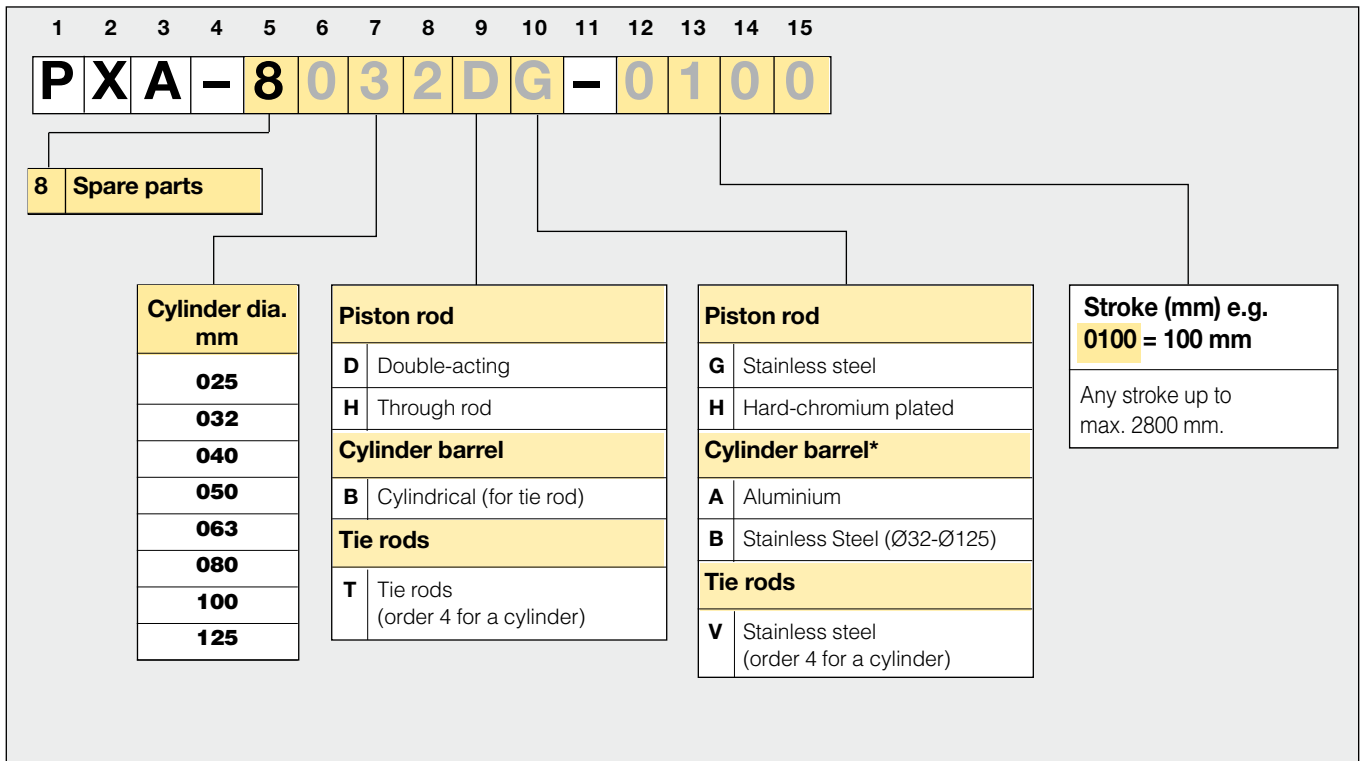
Ø mm	Standard	Hight temp.	Hydraulic
25	<b>JJ025A02</b>	<b>JJ025A03</b>	<b>JJH025AN02</b>
32	<b>JJ032A02</b>	<b>JJ032A03</b>	<b>JJH032AN02</b>
40	<b>JJ040A02</b>	<b>JJ040A03</b>	<b>JJH040AN02</b>
50	<b>JJ050A02</b>	<b>JJ050A03</b>	<b>JJH050AN02</b>
63	<b>JJ063A02</b>	<b>JJ063A03</b>	<b>JJH063AN02</b>
80	<b>JJ080A02</b>	<b>JJ080A03</b>	<b>JJH080AN02</b>
100	<b>JJ100A02</b>	<b>JJ100A03</b>	<b>JJH100AN02</b>
125	<b>JJ125A02</b>	<b>JJ125A03</b>	<b>JJH125AN02</b>
160	<b>JJ160A02</b>	<b>JJ160A03</b>	<b>JJH160AN02</b>
200	<b>JJ200A02</b>	<b>JJ200A03</b>	<b>JJH200AN02</b>

Assembly nutted stud and mountings tightening torque (Nm)

Ø mm	Std. body		Steel body		Epoxy body	
	Stroke	Torque	Stroke	Torque	Stroke	Torque
25	0-800	5	801-1200	2		
32	0-900	5	901-2000	2	0-400	2,5
40	0-1100	5	1101-2000	3	0-600	3,5
50	0-1200	10	1201-2000	6	0-700	6,0
63	0-1200	12	1201-2000	8	0-700	9,0
80	0-1400	20	1401-2000	14	0-700	12,0
100	0-1400	24	1401-2000	20	0-900	13,0
125	0-1500	35	1501-2000	30	0-1000	17,0
160	0-1500	70	1501-2000	58	0-1000	27,0
200	0-1500	70	1501-2000	58	0-1000	27,0

**Note:** Nutted studs and mounting nuts should be progressively tightened diagonally opposite until indicated torque values are reached

**Order key, spare parts**





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