

**P1D-T Pneumatic ISO Cylinders - Ø160 - Ø320 mm****Double acting with stainless steel piston rod**

- Bore sizes Ø160 - Ø320mm
- Stroke lengths 10 - 2000mm
- Magnetic piston as standard
- Adjustable cushioning as standard
- High temperature version
- ATEX version (add-EXNN to the order code)

**P1D-T Standard temperature, magnetic piston**

Cyl. bore mm	Stroke mm	Order code
<b>160</b> Conn. G3/4	50	<b>P1D-T160MS-0050</b>
	80	<b>P1D-T160MS-0080</b>
	100	<b>P1D-T160MS-0100</b>
	125	<b>P1D-T160MS-0125</b>
	160	<b>P1D-T160MS-0160</b>
	200	<b>P1D-T160MS-0200</b>
	250	<b>P1D-T160MS-0250</b>
	320	<b>P1D-T160MS-0320</b>
	400	<b>P1D-T160MS-0400</b>
	500	<b>P1D-T160MS-0500</b>
	800	<b>P1D-T160MS-0800</b>
	1000	<b>P1D-T160MS-1000</b>

<b>200</b> Conn. G3/4	50	<b>P1D-T200MS-0050</b>
	80	<b>P1D-T200MS-0080</b>
	100	<b>P1D-T200MS-0100</b>
	125	<b>P1D-T200MS-0125</b>
	160	<b>P1D-T200MS-0160</b>
	200	<b>P1D-T200MS-0200</b>
	250	<b>P1D-T200MS-0250</b>
	320	<b>P1D-T200MS-0320</b>
	400	<b>P1D-T200MS-0400</b>
	500	<b>P1D-T200MS-0500</b>
	800	<b>P1D-T200MS-0800</b>
	1000	<b>P1D-T200MS-1000</b>

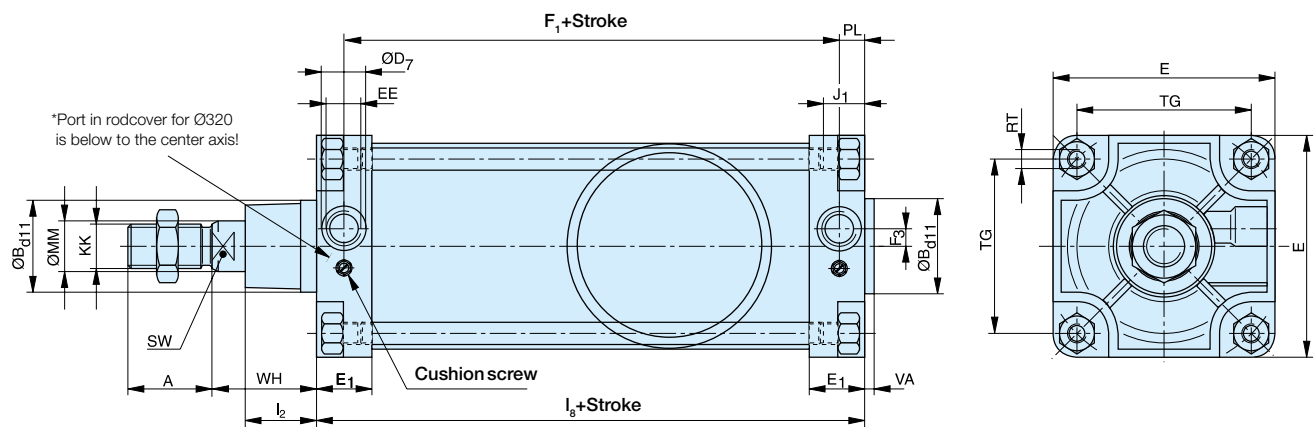
Cyl. bore mm	Stroke mm	Order code
<b>250</b> Conn. G1	50	<b>P1D-T250MS-0050</b>
	80	<b>P1D-T250MS-0080</b>
	100	<b>P1D-T250MS-0100</b>
	125	<b>P1D-T250MS-0125</b>
	160	<b>P1D-T250MS-0160</b>
	200	<b>P1D-T250MS-0200</b>
	250	<b>P1D-T250MS-0250</b>
	320	<b>P1D-T250MS-0320</b>
	400	<b>P1D-T250MS-0400</b>
	500	<b>P1D-T250MS-0500</b>
	800	<b>P1D-T250MS-0800</b>
	1000	<b>P1D-T250MS-1000</b>

<b>320</b> Conn. G1	50	<b>P1D-T320MS-0050</b>
	80	<b>P1D-T320MS-0080</b>
	100	<b>P1D-T320MS-0100</b>
	125	<b>P1D-T320MS-0125</b>
	160	<b>P1D-T320MS-0160</b>
	200	<b>P1D-T320MS-0200</b>
	250	<b>P1D-T320MS-0250</b>
	320	<b>P1D-T320MS-0320</b>
	400	<b>P1D-T320MS-0400</b>
	500	<b>P1D-T320MS-0500</b>
	800	<b>P1D-T320MS-0800</b>
	1000	<b>P1D-T320MS-1000</b>

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

**Note:** \* Change MS to MF for high temperature range no magnetic piston,  
QC for standard temp with metal scraper

## P1D-T Tie rod



**Note \*:** for bore size 320mm, front air port is on the bottom of the axis of the cylinder and the cushioning screw on the top

## Dimensions (mm)

Cyl. Ø	A	ØB <sub>d11</sub>	ØD <sub>7</sub>	E	E <sub>1</sub>	F <sub>1</sub> + Stroke	F <sub>3</sub>	J <sub>1</sub> max.	I <sub>2</sub>	I <sub>8</sub> + Stroke	EE	KK	MM	PL	RT	SW	TG	VA	WH
160	72	65	33	180	45	130	11	23	50	180	G3/4	M36x2	40	25	M16	36	140	6	80
200	72	75	33	220	45	130	15	23	60	180	G3/4	M36x2	40	25	M16	36	175	6	95
250	84	90	40	280	64	136	21	27	70	200	G1	M42x2	50	32	M20	46	280	10	105
320	96	110	-	340	56	164	-20*/20	28	89,5	220	G1	M48x2	63	28	M24	55	340	10	120

## Tolerances

Cylinder bore mm	L <sub>8</sub> mm	TG mm	Stroke tolerance up to stroke 500 mm	Stroke tolerance for stroke over 500 mm
160	±1,1	±1,1	+0,3/+2,0	+0,3/+3,0
200	±1,6	±1,1	+0,3/+2,0	+0,3/+3,0
250	±1,6	±1,5	+0,3/+2,0	+0,3/+3,0
320	±2,2	±1,5	+0,3/+2,0	+0,3/+3,0

**Order Key Code** (Model code with 20 digits used only for the trunnion option or for the ATEX version)

**15 digit order code**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P	1	D	-	T	1	6	0	M	S	-	0	5	0	0

**20 digit order code**

16	17	18	19	20
N	D	N	N	N

**4**

Cylinder type	
<b>-</b>	Standard with cushioning and magnetic piston
<b>F</b>	Standard with cushioning without magnet piston

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Function	
<b>M</b>	Standard scraper
<b>Q</b>	Metallic scraper
<b>V</b>	FPM scraper
<b>F</b>	Thru rod, standard scraper
<b>R</b>	Thru rod, metallic scraper
<b>B</b>	Thru rod, FPM scraper

**12-13-14-15**

Stroke (mm) e.g. 0100 = 100 mm	
Optional stroke lengths up to 2000 mm. Standard strokes see table below.	

**6-7-8**

Cylinder bore mm	
<b>160</b>	
<b>200</b>	
<b>250</b>	
<b>320</b>	

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Piston rod Material		Seals
Stainless steel	Chromium plated steel	
<b>S</b>	<b>C</b>	Standard temperature version -20°C to +80°C.
<b>F</b>	<b>G</b>	High temperature version -10°C to +150°C. No magnetic function, keep - symbol in digit 4

**17-18-19-20**

Intermediate trunnion		
<b>90°</b>	<b>0°</b>	Pivots Vs Air Ports
<b>D</b>	<b>6</b>	Centre trunnion MT4, mid position (NNN digits 18-19-20)
<b>G</b>	<b>7</b>	Trunnion MT4, optional pos. (XV-meas. digits 18-19-20)

**16-17-18-19-20**

ATEX version e.g. P1D-T160MS-0500-EXNN	
<b>-EXNN</b>	According to ATEX

**II 2GD c T4 120 °C**

## Standard strokes

Standard strokes for all P1D-T cylinders comply with ISO 4393.

Non standard strokes up to 2000 mm.

**Order no**      **Cylinder bore**      ● = Standard stroke (mm)       = Stroke to special order

XXXX = Stroke      (mm)      50   80   100   125   160   200   250   320   400   500   800   1000   2000

P1D-T													
P1D-T160MS-XXXX	160	●	●	●	●	●	●	●	●	●	///	///	
P1D-T200MS-XXXX	200	●	●	●	●	●	●	●	●	●	///	///	
P1D-T250MS-XXXX	250	●	●	●	●	●	●	●	●	●	///	///	
P1D-T320MS-XXXX	320	●	●	●	●	●	●	●	●	●	///	///	