

P1Q Series Compact Cylinders

According to ISO 15524



Parker's P1Q series cylinders provide an economical, compact design suited for a variety of applications. With its modular flexibility, the P1Q will provide the ideal solution machine builders need today. The P1Q series is available in 10 bore sizes from 12 mm to 100 mm and standard strokes from 5 mm to 100 mm. The cylinder is supplied in a choice of magnetic or non-magnetic function, the non-magnetic version offers very short axial dimensions. For optimum compactness the P1Q range is supplied with female piston rod thread.

The P1Q provides quieter operation due to its built in buffer cushioning, which is standard on all bore sizes. Included in bore sizes 40 mm – 100 mm is a piston wear ring providing superior life.

The P1Q compact cylinder is ideal for applications where you need compact dimensions and high over-all performance. The versatile P1Q cylinder range provides a long trouble-free operation in a variety of applications.

- ISO 15524 conformity
- Compact and versatile
- Magnetic or non magnetic options
- Flush fit sensor range
- Buffer cushioning as standard
- Piston wear ring on Ø32 - Ø100mm
- Tapped both ends as standard

*** Non-magnetic cylinder order code.**

Place **B** in position **11** of the order code

Example: P1QS012DC7**B**0005



Operating information

Working pressure: Max 10 bar
Permissible fluid: Air, with or without lubrication

Standard working temperature: -5°C to +60°C

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

For more information see www.parker.com/euro_pneumatic

Double acting - Magnetic - Female threaded piston rod

Ø12mm

Stroke mm	Order code
5	P1QS012DC7G0005
10	P1QS012DC7G0010
15	P1QS012DC7G0015
20	P1QS012DC7G0020
25	P1QS012DC7G0025
30	P1QS012DC7G0030

Ø16mm

Stroke mm	Order code
5	P1QS016DC7G0005
10	P1QS016DC7G0010
15	P1QS016DC7G0015
20	P1QS016DC7G0020
25	P1QS016DC7G0025
30	P1QS016DC7G0030

Ø20mm

Stroke mm	Order code
10	P1QS020DC7G0010
15	P1QS020DC7G0015
20	P1QS020DC7G0020
25	P1QS020DC7G0025
30	P1QS020DC7G0030
40	P1QS020DC7G0040
50	P1QS020DC7G0050

Ø25mm

Stroke mm	Order code
10	P1QS025DC7G0010
15	P1QS025DC7G0015
20	P1QS025DC7G0020
25	P1QS025DC7G0025
30	P1QS025DC7G0030
40	P1QS025DC7G0040
50	P1QS025DC7G0050

Ø32mm

Stroke mm	Order code
10	P1QS032DC7G0010
15	P1QS032DC7G0015
20	P1QS032DC7G0020
25	P1QS032DC7G0025
30	P1QS032DC7G0030
40	P1QS032DC7G0040
50	P1QS032DC7G0050
75	P1QS032DC7G0075
100	P1QS032DC7G0100

Ø40mm

Stroke mm	Order code
15	P1QS040DC7G0015
20	P1QS040DC7G0020
25	P1QS040DC7G0025
30	P1QS040DC7G0030
40	P1QS040DC7G0040
50	P1QS040DC7G0050
75	P1QS040DC7G0075
100	P1QS040DC7G0100

Ø50mm

Stroke mm	Order code
15	P1QS050DC7G0015
20	P1QS050DC7G0020
25	P1QS050DC7G0025
30	P1QS050DC7G0030
40	P1QS050DC7G0040
50	P1QS050DC7G0050
75	P1QS050DC7G0075
100	P1QS050DC7G0100

Ø63mm

Stroke mm	Order code
15	P1QS063DC7G0015
20	P1QS063DC7G0020
25	P1QS063DC7G0025
30	P1QS063DC7G0030
40	P1QS063DC7G0040
50	P1QS063DC7G0050
75	P1QS063DC7G0075

Ø80mm

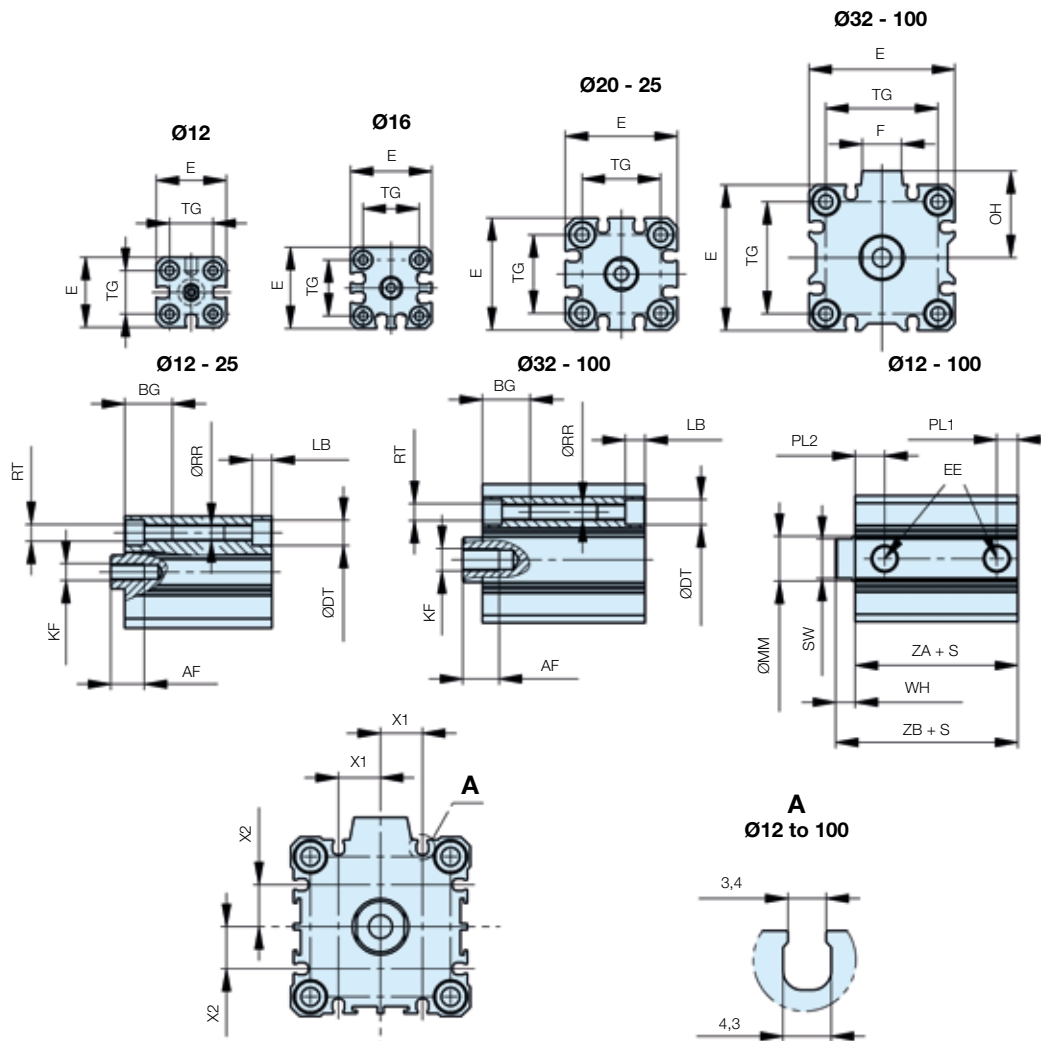
Stroke mm	Order code
15	P1QS080DC7G0015
20	P1QS080DC7G0020
25	P1QS080DC7G0025
30	P1QS080DC7G0030
40	P1QS080DC7G0040
50	P1QS080DC7G0050
75	P1QS080DC7G0075

Ø100mm

Stroke mm	Order code
15	P1QS100DC7G0015
20	P1QS100DC7G0020
25	P1QS100DC7G0025
30	P1QS100DC7G0030
40	P1QS100DC7G0040
50	P1QS100DC7G0050
75	P1QS100DC7G0075

Dimensions (mm)

Double acting, magnetic and non magnetic piston, elastic cushioning, piston rod with internal thread



Dimensions - Non-magnetic

The non magnetic version is not in the ISO standard, ZA and ZB could be different depending on the cylinder's manufacturer
 WH and ZB are without pressure in the cylinder, deformation of elastic bumpers under pressure gives different dimensions

Bore size Ø (mm)	E	TG	F	OH	RT 6H	BG	KF	AF	ØRR	LB	ØDT	ØMM f8	SW	PL1	PL2	EE	X1	X2	WH	ZA		ZB	
																				5 to 50mm	75 to 100mm	5 to 50mm	75 to 100mm
12	25	15,5 ±0,3	-	12,5	M4	11,0	M3	6	3,5	4,0	6,5	6	5	5,0	7,5	M5	0	0	3,5 ±1,5	17,0	-	20,5	-
16	29	20 ±0,3	-	14,5	M4	11,0	M4	8	3,5	4,0	6,5	8	6	5,0	7,5	M5	3,5	3,5	3,5 ±1,5	17,0	-	20,5	-
20	36	25,5 ±0,3	7,6	18,0	M6	17,0	M5	7	5,4	7,0	9,0	10	8	5,5	9,0	M5	5,5	5,5	4,5 ±1,5	19,5	-	24,0	-
25	40	28 ±0,3	16,4	20,0	M6	17,0	M6	12	5,4	7,0	9,0	12	10	5,5	11,0	M5	6,5	6,5	5 ±1,5	22,5	-	27,5	-
32	45	34 ±0,3	14,0	27,0	M6	17,0	M8	13	5,5	7,0	9,0	16	14	7,5	10,5	G1/8	10,0	10,0	7 ±2	23,0	33,0	30,0	40,0
40	52	40 ±0,3	14,0	31,0	M6	17,0	M8	13	5,5	7,0	9,0	16	14	8,0	11,0	G1/8	11,0	11,0	7 ±2	29,5	39,5	36,5	46,5
50	64	50 ±0,5	26,0	39,0	M8	22,0	M10	15	6,6	8,0	11,0	20	17	10,5	10,5	G1/4	15,0	15,0	8 ±2	30,5	40,5	38,5	48,5
63	77	60 ±0,5	19,0	44,5	M10	28,5	M10	15	9,0	10,5	14,0	20	17	10,5	15,0	G1/4	18,0	18,0	8 ±2	36,0	46,0	44,0	54,0
80	98	77 ±0,5	26,0	55,0	M12	35,5	M16	21	11,0	13,5	17,5	25	22	12,5	16,0	G3/8	22,0	22,0	10 ±2	43,5	53,5	53,5	63,5
100	117	94 ±0,5	26,0	65,0	M12	35,5	M20	27	11,0	13,5	17,5	30	27	13,0	23,0	G3/8	22,0	22,0	12 ±2,5	53,0	63,0	65,0	75,0

Dimensions - Magnetic

WH and ZB are without pressure in the cylinder, deformation of elastic bumpers under pressure gives different dimensions

Bore size Ø (mm)	E	TG	F	OH	RT 6H	BG	KF	AF	ØRR	LB	ØDT	ØMM f8	SW	PL1	PL2	EE	X1	X2	WH	ZA	ZB
12	25	15,5 ±0,3	-	12,5	M4	11,0	M3	6	3,5	4,0	6,5	6	5	5,0	7,5	M5	0	0	3,5 ±1,5	22,0	25,5
16	29	20 ±0,3	-	14,5	M4	11,0	M4	8	3,5	4,0	6,5	8	6	5,0	7,5	M5	3,5	3,5	3,5 ±1,5	22,0	25,5
20	36	25,5 ±0,3	7,6	18,0	M6	17,0	M5	7	5,4	7,0	9,0	10	8	5,5	9,0	M5	5,5	5,5	4,5 ±1,5	29,5	34,0
25	40	28 ±0,3	16,4	20,0	M6	17,0	M6	12	5,4	7,0	9,0	12	10	5,5	11,0	M5	6,5	6,5	5 ±1,5	32,5	37,5
32	45	34 ±0,3	14,0	27,0	M6	17,0	M8	13	5,5	7,0	9,0	16	14	7,5	10,5	G1/8	10,0	10,0	7 ±2	33,0	40,0
40	52	40 ±0,3	14,0	31,0	M6	17,0	M8	13	5,5	7,0	9,0	16	14	8,0	11,0	G1/8	11,0	11,0	7 ±2	39,5	46,5
50	64	50 ±0,5	26,0	39,0	M8	22,0	M10	15	6,6	8,0	11,0	20	17	10,5	10,5	G1/4	15,0	15,0	8 ±2	40,5	48,5
63	77	60 ±0,5	19,0	44,5	M10	28,5	M10	15	9,0	10,5	14,0	20	17	10,5	15,0	G1/4	18,0	18,0	8 ±2	46,0	54,0
80	98	77 ±0,5	26,0	55,0	M12	35,5	M16	21	11,0	13,5	17,5	25	22	12,5	16,0	G3/8	22,0	22,0	10 ±2	53,5	63,5
100	117	94 ±0,5	26,0	65,0	M12	35,5	M20	27	11,0	13,5	17,5	30	27	13,0	23,0	G3/8	22,0	22,0	12 ±2,5	63,0	75,0

S = stroke, following ISO tolerance on ZB is ±2, bore sizes 12 and 16 mm are not in the ISO standard

Cylinder mountings

Flange MF1

Surface treated steel

Cyl. dia.	Order code
12	P1Q-4DMB
16	P1Q-4FMB
20	P1Q-4HMB
25	P1Q-4JMB
32	P1Q-4KMB
40	P1Q-4LMB
50	P1Q-4MMB
63	P1Q-4NMB
80	P1Q-4PMB
100	P1Q-4QMB



Foot brackets MS9

Surface treated steel

Cyl. dia.	Order code
12	P1Q-4DMF
16	P1Q-4FMF
20	P1Q-4HMF
25	P1Q-4JMF
32	P1Q-4KMF
40	P1Q-4LMF
50	P1Q-4MMF
63	P1Q-4NMF
80	P1Q-4PMF
100	P1Q-4QMF



Clevis mounting

Surface treated steel, black

Cyl. dia.	Order code
12	P1Q-4DMT
16	P1Q-4FMT
20	P1Q-4HMT
25	P1Q-4JMT
32	P1Q-4KMT
40	P1Q-4LMT
50	P1Q-4MMT
63	P1Q-4NMT
80	P1Q-4PMT
100	P1Q-4QMT



Electronic and Reed Sensors

Size	Description	Order code
Flush mount style		
PNP Type, normally open	0.165 m cable and M8 screw male connector	P8S-EPSUS
PNP Type, normally open	2 m PUR cable without connector	P8S-EPFSX
NPN Type, normally open	0.165 m cable and M8 screw male connector	P8S-ENSUS
NPN Type, normally open	2 m PUR cable without connector	P8S-ENFXS
Reed Type, normally open	0.15 m cable and M8 screw male connector	P8S-ERSUS
Reed Type, normally open	2 m PUR cable without connector	P8S-ERFXS