



# Pneumatic cylinders

Series C41  
According to ISO

Catalogue 9127004192GB-ul



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**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**

Air quality is essential for maximum cylinder service life (see ISO 8573).

**Note**

All technical data in this catalogue are typical data only.



### The C41 M Cylinder Series

The Parker C41 cylinder series, manufactured to ISO standard specifications, features double-acting pneumatic cylinders with adjustable cushioning at the end positions.

The C41 cylinders are available with bores of 32 to 200 mm and with strokes of 25 to 1000 mm. The series has been designed to meet industrial working conditions and needs. No additional lubrication is required. The standard version of the C41 is provided with a magnetic piston. This means they are ready for use with electronic control systems.

#### Standardised installation

The installation dimensions meet ISO 6431 specifications, thus enabling C41 cylinders to be used with the standard range of ISO mountings.

#### Adapted for electronic applications

With a magnetic piston as standard the C41 cylinder can be used for proximity position sensing. A wide range of sensors with LED indicators, connected by means of a flying lead or a connecting plug are available.

One sensor type has a switching-off delay function and is particularly suitable for high piston speeds. The sensors are easy to install in any position along the cylinders tie rods.

#### Long service life

Lubricant filled piston rod bearing, high quality seals and the cylinder design makes the C41 series suitable for operation without additional lubrication. Lubrication-free operation provides a better working environment, simplifies installation and minimises maintenance and service needs.

The built-in adjustable cushioning is gentle on the cylinder and prevents metallic stops at the end position.

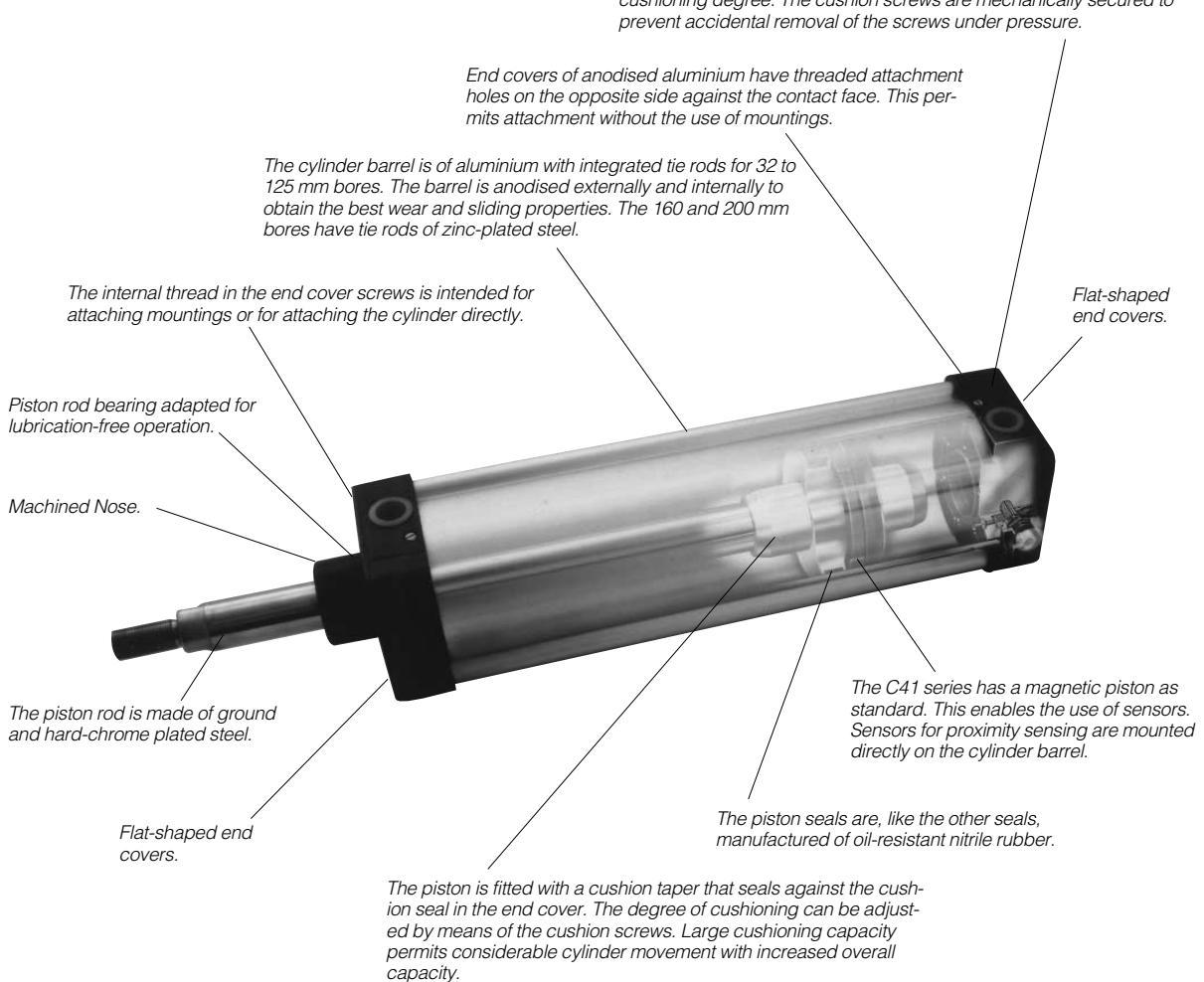
In addition to the basic model, the C41 cylinders are available in several special models.

- Mechanical end position sensing, C41 model, with electronic or pneumatic output signal. The end position transmitters, which are integrated in the cylinder end covers, replace external arrangements for sensing the end positions of the piston rod. This provides a fully integrated unit in which hoses and cables are concentrated in one position.
- Piston rod of stainless steel for corrosive environments.
- Thanks to the through piston rod, the C41 cylinder can absorb greater lateral loads and offers a wider choice of location for external position sensors.
- Cylinder end covers without recesses facilitate cleaning. These end covers, combined with the integrated tie rods in the barrel, provide a cylinder that is suitable in applications with strict hygiene requirements.
- A high-temperature model for ambient temperatures of up to + 150 °C is available for the C41 cylinders in the 32 to 200 mm bore range.
- A hydraulic model for bores of 32 to 125 mm. Special seals mean that the cylinder movement can be fluid-stabilised or can be operated with low-pressure hydraulics.

#### Tandem cylinders

Two cylinders connected in series give almost twice the compressive force for a given cylinder bore. If the forward cylinder is filled with hydraulic fluid, a hydraulically cushioned movement can be obtained.

- 3-position cylinders.
- 4-position cylinders.



**Main data: C41**

Cylinder designation	Cylinder bore mm	Cylinder area cm²	Piston rod diam. mm			Area thread	Cushioning length mm	Total mass at 0 mm stroke kg	Addition per 10 mm stroke kg	Mass, moving parts at 0 mm stroke kg	Addition per 10 mm stroke kg	Air consumption <sup>3)</sup> litre	Port size
			diam.	area	thread								
C41-S032MC-S <sup>1)</sup>	32	8,0	12	1,1	M10x1,25	15	0,55	0,024	0,10	0,009	0,105	0,105	G1/8
C41-S040MC-S <sup>1)</sup>	40	12,6	16	2,0	M12x1,25	18	0,70	0,032	0,19	0,016	0,162	0,162	G1/4
C41-S050MC-S <sup>1)</sup>	50	19,6	20	3,1	M16x1,5	19	1,05	0,048	0,32	0,024	0,253	0,253	G1/4
C41-S063MC-S <sup>1)</sup>	63	31,2	20	3,1	M16x1,5	22	1,50	0,058	0,36	0,024	0,414	0,414	G3/8
C41-S080MC-S <sup>1)</sup>	80	50,3	25	4,9	M20x1,5	24	2,60	0,080	0,80	0,038	0,669	0,669	G3/8
C41-S100MC-S <sup>1)</sup>	100	78,5	32	8,0	M20x1,5	27	4,05	0,116	1,60	0,063	1,043	1,043	G1/2
C41-S125MC-S <sup>1)</sup>	125	123,0	32	8,0	M27x2 <sup>2)</sup>	31	6,85	0,130	2,30	0,063	1,662	1,662	G1/2
C41-T160MC-S <sup>1)</sup>	160	201,0	40	12,6	M36x2	37	12,00	0,162	5,00	0,098	2,727	2,727	G3/4
C41-T200MC-S <sup>1)</sup>	200	314,0	40	12,6	M36x2	37	16,20	0,183	6,75	0,098	4,310	4,310	G3/4

1) S=Stroke length

2) M24x2 piston rod thread according to previous standard available on request.

3) Free air consumption per 10 mm stroke length for a double stroke at 6 bar

**Piston forces**

The values for piston forces are theoretical, and should be reduced in accordance with the working conditions.

Cylinder designation	Cylinder bore mm	Theoretical piston force at 6 bar plus stroke N		minus stroke N
		at 6 bar N	plus stroke N	
C41-S032MC-S <sup>1)</sup>	32	482	414	
C41-S040MC-S <sup>1)</sup>	40	754	633	
C41-S050MC-S <sup>1)</sup>	50	1178	989	
C41-S063MC-S <sup>1)</sup>	63	1870	1681	
C41-S080MC-S <sup>1)</sup>	80	3016	2721	
C41-S100MC-S <sup>1)</sup>	100	4712	4230	
C41-S125MC-S <sup>1)</sup>	125	7363	6880	
C41-T160MC-S <sup>1)</sup>	160	12060	11310	
C41-T200MC-S <sup>1)</sup>	200	18850	18100	

1) S=Stroke length

**Other data**

Working medium	dry, filtered compressed air
Working pressure	max 10 bar
Working temperature	max +70 °C min -20 °C

**Material specifications**

Cylinder barrel	Natural anodised aluminium
End covers	Black anodised aluminium
End-cap screws	Zinc plated steel
Tie rods for bores 160-200	Zinc plated steel
Piston for bores Ø32-Ø63	Acetal plastic
Piston for bores Ø80-Ø200	Aluminium
Piston rod	Hard-chromium plated steel, Fe 490-2 FN
Bearings	HDPE plastic
Seals	Nitrile rubber, NBR
Cushioning screws	Zinc plated steel
Cushioning-seals	Polyurethane

**High-temperature versions**

Sealings/scrapers ring	Fluorocarbon rubber, FPM
Piston	Aluminium
Piston bearing	Graphite-filled PTFE
Piston rod bearing	Acetal plastic/Bronze/Steel
Cusioning seals Ø32-63	Fluorocarbon rubber, FPM
Cusioning seals Ø80-200	PTFE

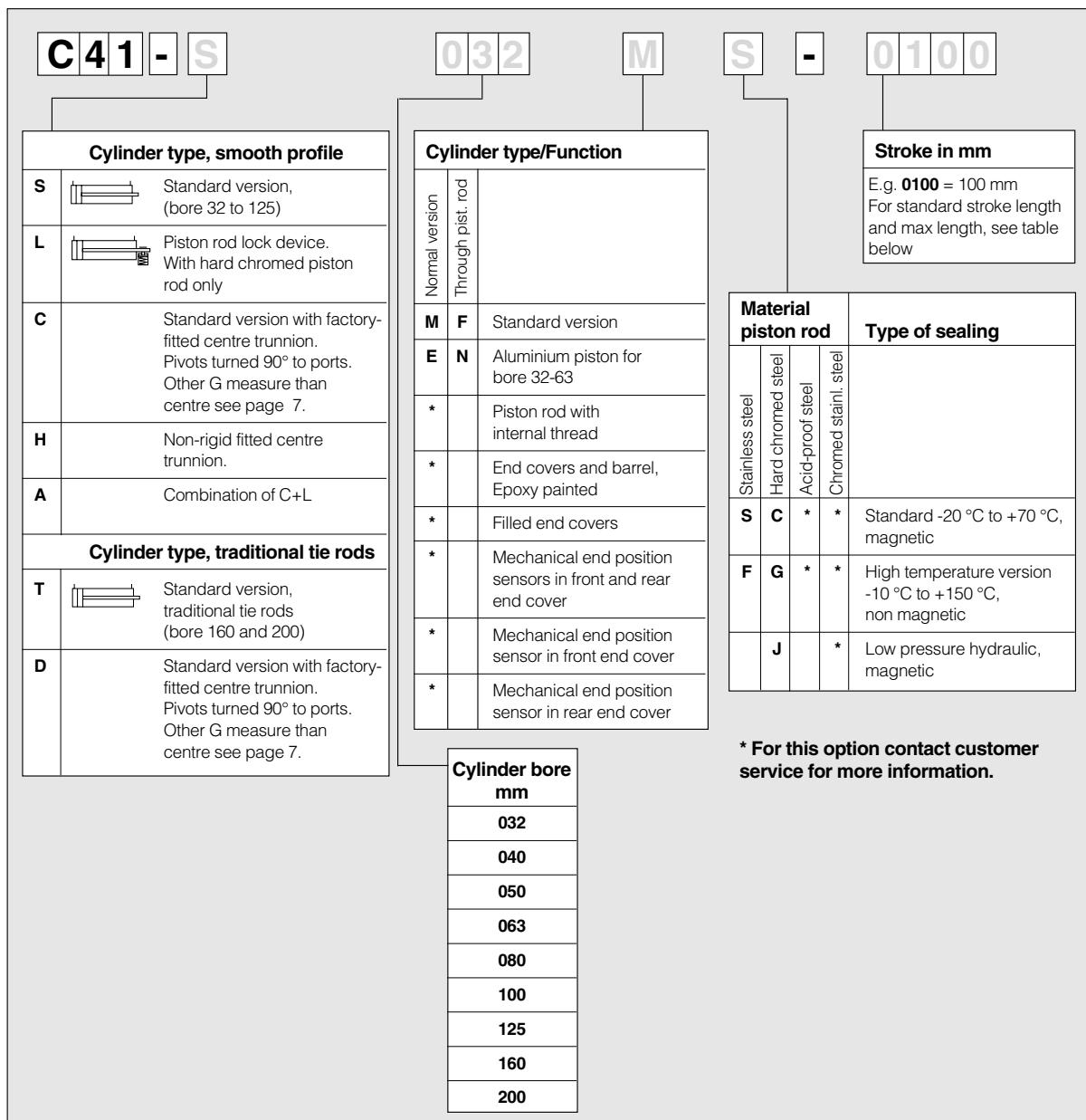
**Low-pressure hydraulic**

Sealings	Nitrile rubber, NBR
Scraper ring	Polyurethane
Piston	Aluminium
Piston bearing	UHMWPE-plastic
Cusionings excluded	

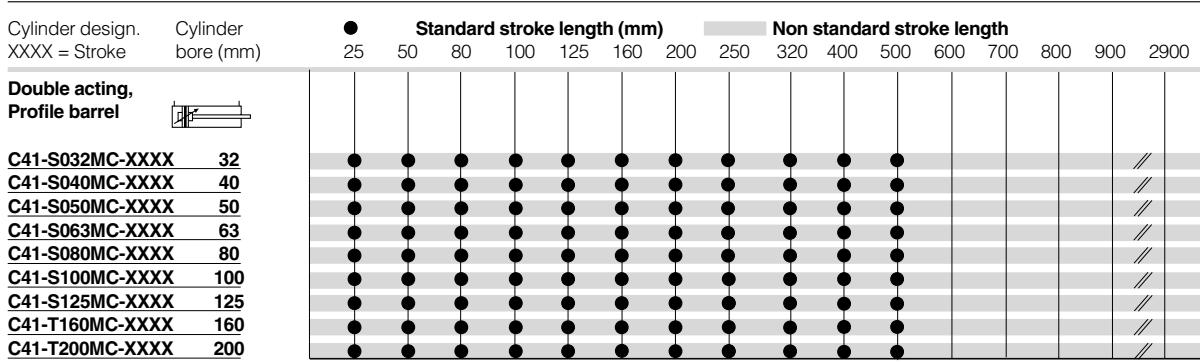
**Options**

Stainless steel piston rod	X 10 CrNiS 18 9
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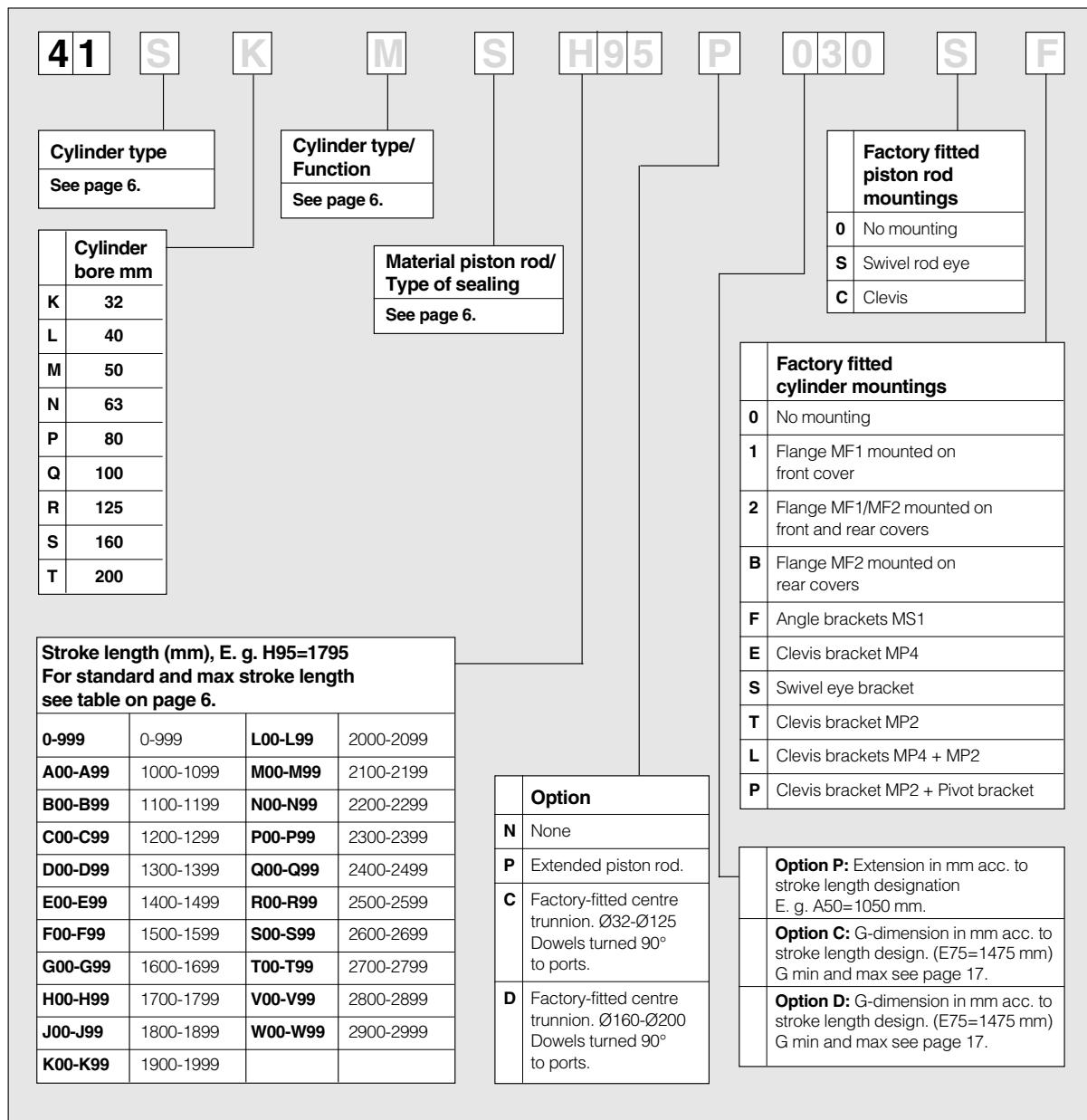
## Order key, standard version



## Standard stroke length in mm



## Order key, special versions



## Options

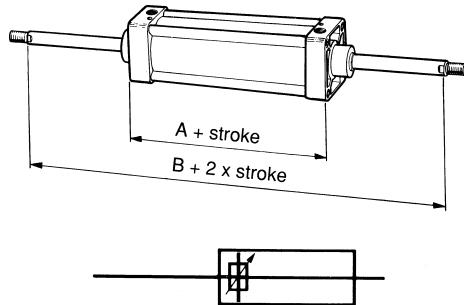
A number of special cylinders for various requirements can be achieved with the C40/C41 M cylinders as a base.

### Cylinders with stainless steel piston rod

All cylinders of C41 type can be supplied with a stainless steel piston rod.

### Cylinders with through piston rod

All cylinders of C41 type are available with through piston rods. This type of cylinder has equal push and pull force.

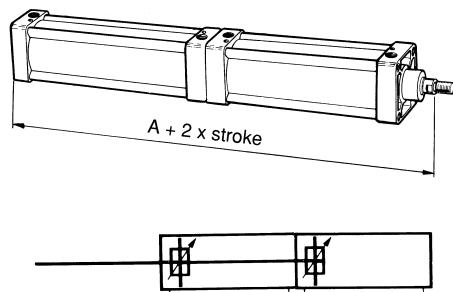


Cylinder bore mm	A mm	B mm
32	94	146
40	99	165
50	104	180
63	113	195
80	124	220
100	134	240
125	160	290
160	176	340
200	180	370

See standard cylinder for other dimensions

### Tandem cylinders

All C41 cylinders are available as tandem cylinders. The tandem cylinder - two cylinders connected in series, in other words with a common piston rod - provides almost twice the compressive force for a given cylinder bore. This is an advantage in applications where space is limited. A hydraulically cushioned movement can also be achieved with a tandem cylinder through the front cylinder being filled with hydraulic fluid, which is permitted to flow between the cylinder's two chambers.



Cylinder bore mm	A mm
32	214
40	231
50	246
63	267
80	296
100	321
125	385
160	434
200	455

See standard cylinder for other dimensions

## Cylinders with filled end covers

C41 cylinders in bore range 32 - 125 mm are available with filled end covers. This model is specially adapted to suit environments with strict cleaning requirements. The recesses in the end covers are filled with cast compound (Urethane) to reduce dirt-collecting surfaces to a minimum.

## Cylinders for high ambient temperatures

C41 cylinders in bore range 32 - 200 mm can be provided with special seals for ambient temperatures of up to + 150 °C. The cylinders are lubricated initially with a special grease.

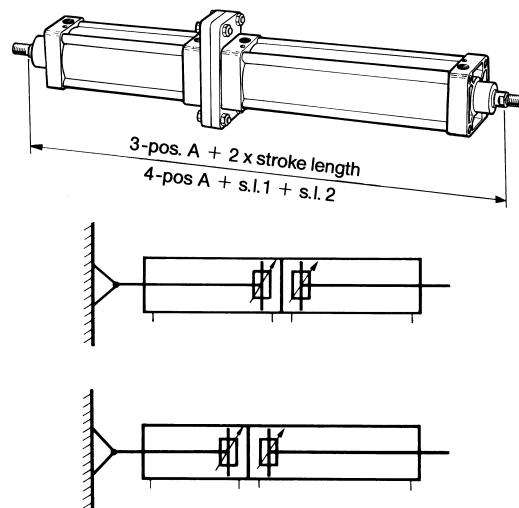
## Cylinders for low-pressure hydraulics

C41 cylinders in bore range 32 - 125 mm are available in models for low-pressure hydraulics for shockless actuation at working pressures up to 10 bar.

## 3-position cylinders and 4-position cylinders

The 3-position cylinder consists of two cylinders with equal strokes. The rear end covers are connected to each other by means of the rear flanges. The home position of the cylinder is with the piston rods in both cylinders retracted. The next position occurs when one piston rod has moved out. The third position occurs when both piston rods are extended. The component cylinders of the 3-position cylinder must be arranged so that they can move in the lengthways direction of the piston rods. Order two separate cylinders and two rear flange fittings.

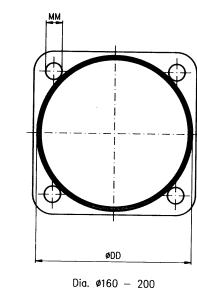
The 4-position cylinder is constructed in the same way as the 3-position cylinder, but in this case two cylinders with different strokes are used. The cylinder is in the home position when both the piston rods are retracted. The next position occurs when the short cylinder's piston rod has moved out. The third position occurs when the short cylinder's piston rod is retracted and the long cylinder's piston rod is extended. The fourth and last position occurs when both the piston rods are extended. The component cylinders of a 4-position cylinder must be arranged so that they can move in the lengthways direction of the piston rods. Order two separate cylinders and two rear flange fittings.



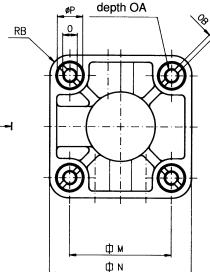
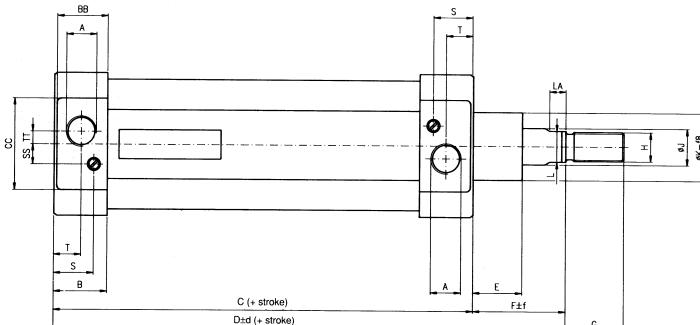
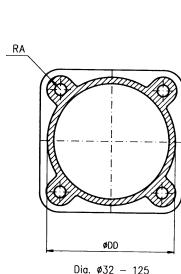
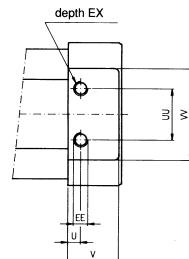
Cylinder bore mm	A mm	Cylinder bore mm	A mm
32	260	100	410
40	290	125	490
50	310	160	560
63	340	200	600
80	380		

# C41

# Cylinders


**NOTE:**

The mounting holes are located on the contact face opposite the connection ports.



## Dimensions

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	N mm	O mm	P mm	S mm	T mm
32	G1/8	24,0	94	120	16	26	22	M10x1,25	12	24	10	32,5	50	M5	8	18,5	11,0
40	G1/4	25,5	99	132	20	33	24	M12x1,25	16	29	14	36,8	56	M6	11	20,5	13,0
50	G1/4	26,0	104	142	23	38	32	M16x1,5	20	36	17	46,7	66	M6	11	19,0	13,0
63	G3/8	29,5	113	154	27	41	32	M16x1,5	20	37	17	55,9	78	M8	13	22,0	15,0
80	G3/8	33,0	124	172	30	48	40	M20x1,5	25	46	22	70,0	96	M10	17	26,0	20,0
100	G1/2	38,0	134	187	32	53	40	M20x15	32	56	27	84,1	112	M10	17	31,0	22,0
125	G1/2	44,5	160	225	40	65	54	M27x2 <sup>1)</sup>	32	67	27	104,0	138	M12	23	37,5	28,5
160	G3/4	55,0	176	258	50	82	72	M36x2	40	87	36	134,4	178	M16	27	43,0	30,0
200	G3/4	57,0	180	275	50	95	72	M36x2	40	87	36	163,3	216	M16	27	45,0	32,0

1) M24x2 piston rod thread according to previous standard available on request.

Cylinder bore mm	U mm	V mm	BB mm	CC mm	DD mm	EE mm	MM mm	SS mm	TT mm	UU mm	W mm	EX mm	LA mm	OA mm	OB mm	RA mm	RB mm
32	5,5	24	24	30	37	M5	-	6,5	4,0	12	30	8	6	11,0	2,0	5,0	8,5
40	5,5	19	23	28	45	M6	-	8,0	3,5	15	30	8	9	11,5	2,5	5,5	9,5
50	5,0	23	24	36	56	M6	-	10,5	7,0	22	45	9	9	11,5	2,5	6,0	9,5
63	7,0	27	27	40	70	M8	-	11,0	7,0	28	50	10	9	14,0	2,5	7,5	10,5
80	9,0	29	26	50	87	M10	-	11,0	11,0	34	65	14	10	15,2	3,0	8,5	13,0
100	9,0	32	32	56	108	M10	-	13,0	12,0	48	80	14	13	15,2	3,0	9,0	14,0
125	11,0	32	32	60	134	M12	-	15,0	14,0	54	90	18	14	20,0	4,0	10,0	17,0
160	15,0	43	44	74	172	M16	16	16,0	18,0	64	110	24	18	21,0	4,0	-	22,0
200	20,0	48	44	74	213	M16	16	16,0	18,0	96	140	24	18	21,0	4,0	-	26,0

## Tolerances

Cylinder bore mm	Installation dim. d mm	Installation dim. f mm	Stroke 0-500 mm mm	Stroke (500) - 1000 mm
32	0,9	1,2	+2,0	+3,2
40	0,9	1,2	+2,0	+3,2
50	0,9	1,2	+2,0	+3,2
63	1,2	1,6	+2,5	+4,0
80	1,2	1,6	+2,5	+4,0
100	1,2	1,6	+2,5	+4,0
125	1,5	1,8	+4,0	+5,0
160	1,5	1,8	+4,0	+5,0
200	1,5	1,8	+4,0	+5,0



### Cylinders with mechanical end position sensing

The C41 are combination cylinders. Mechanical end position transmitters are built into the end covers. The output signal is generated via a pneumatic or electric detector, which can easily be mounted in the built-on fitting.

The fitting is the same for all types of detectors. This makes it possible to change the output signal in a simple manner without having to change the cylinder in conjunction with, for example, system changes.

Combinations with sensors are, of course, also possible if several output signals are desired with the C41.

All cylinder dimensions of type C41 are available with end position sensors.

The Parker C41 cylinder is an economical solution:

- No design work is required for locating external arrangements for end position sensing.
- Easier mounting facilitated since the end position transmitters are integrated in the cylinder.
- External detectors must be adjusted to generate an output signal in the correct position. This problem is eliminated with the C41.
- Complete function in one unit simplifies purchasing and planning.

The C41 cylinders offer the following further advantages:

- Cleaner machine design with hoses and cables collected together.
- Sturdy structure, insensitive to external disturbances.
- Can be used in both simple and complicated systems.
- Optional output signal, electric and/or pneumatic, depending on choice of detector.

#### Note:

In the case of strokes shorter than 100 mm the space is limited depending on the type of detector used. Turning the end covers 90 degrees in relation to each other can eliminate this.

# C41

# Cylinders

## VF13

Working pressure: max 10 bar

min 3 bar

Working temperature: max +70 °C

min -20 °C



## EF14

Max contact load:

resistive  
inductive

5A at 30V DC  
3A at 30V DC  
5A at 250V AC

Form of protection  
corresponds to

IP65 acc. to DIN 40 050



## IF14

Supply voltage: 20 - 30V DC alt. 90 - 250V AC

Load current: 200 mA resp. 20VA

Working temperature: -10 °C +60 °C

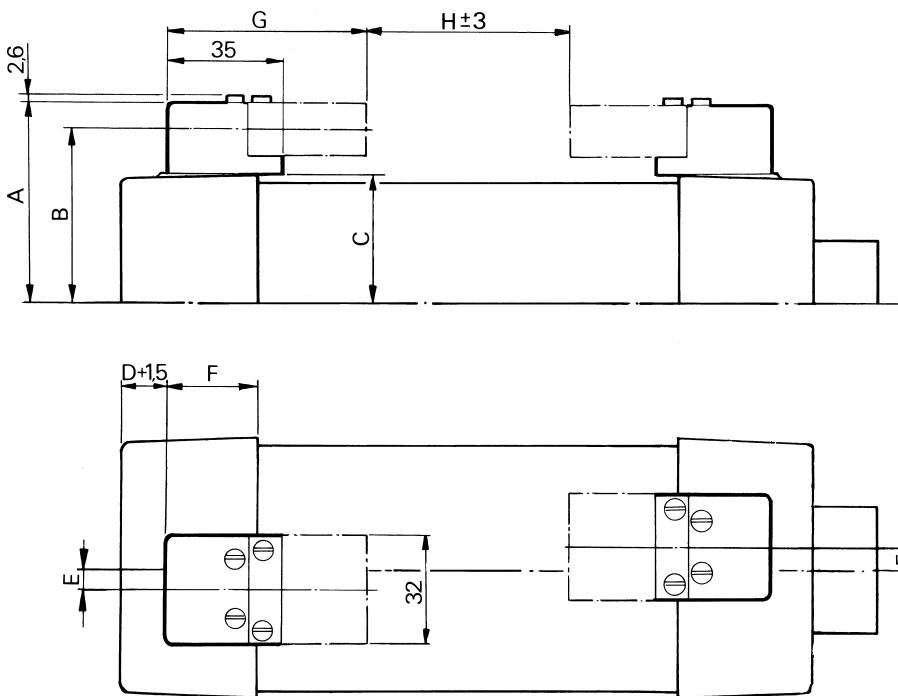
Function: Making

Form of protection  
corresponds to

IP67 acc. to DIN 40 050



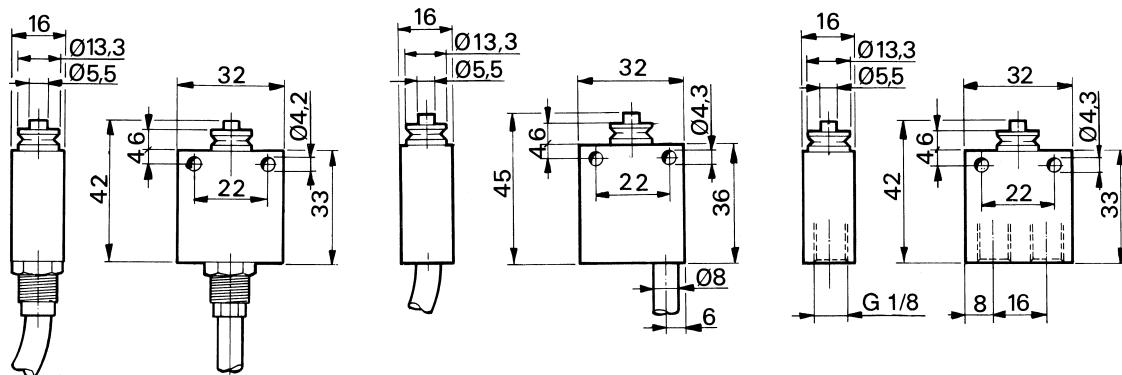
	Symbol	Designation	Weight 9	Order code
		VF 13-I-S-5 Normally closed	35	<b>8204703006</b>
		VF 13-S-I-5 Normally open	35	<b>8204703014</b>
	Brown Black Blue Green/Yellow	EF 14-I-S-5 Microswitch	163	<b>8204703105</b>
	BN Max 200 mA BK BU 10-40 VDC	IF 14-I-S-5 24 VDC, type npn, LED indication	65	<b>8204703345</b>
	BN Max 200 mA BK BU 10-40 VDC	IF 14-I-S-5 24 VDC, type pnp, LED indication	65	<b>8204703303</b>
	Max 200 mA 10-40 VAC	IF 14-I-S-5 220 VAC, LED indication	65	<b>8204703311</b>

**Dimensions**

See standard cylinder for other dimensions

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	Detector type	G mm	IF14 H mm	IF14* H mm	EF14 H mm	VF13 H mm
32	45,0	37,0	24,0	2,0	0	22,0	IF14	57	-104	-160	-47	-26
40	48,0	40,0	27,0	3,5	1	22,0	EF14	60	-102	-158	-45	-24
50	51,5	43,5	30,5	4,0	4	22,0	VF13	57	-98	-154	-41	-20
63	59,0	51,0	38,0	7,0	0	22,5		-95	-151	-38	-17	
80	67,5	59,5	46,5	10,5	0	22,5		-91	-147	-34	-9	
100	76,0	68,0	55,0	22,0	0	22,5		-104	-160	-47	-22	
125	89,0	81,0	68,0	22,0	0	22,5		-78	-134	-21	0	
160	106,5	98,5	85,5	19,5	0	22,5		-57	-113	0	21	
200	126,5	118,5	105,5	21,5	0	22,5		-57	-113	0	21	

\* for 8204703311



# C41

# Mountings

## Cylinder mountings

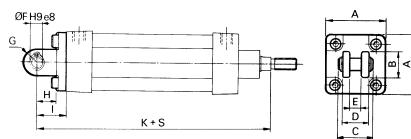
Type	Description	Cyl. bore Ø mm	Weight kg	Order code
<b>Clevis bracket MP4</b>	Intended for flexible mounting of cylinder. This bracket can be combined with clevis bracket MP2, swivel rod bracket and swivel rod eye.	32	0,10	9121644601
	Materials: Body for Ø32-Ø100 mm: anodised aluminium. Body for Ø125-Ø200 mm: zink-plated spheroidal graphite iron. Shaft of hardened steel.	40	0,14	9121644602
		50	0,19	9121644603
		63	0,32	9121644604
		80	0,59	9121644605
		100	0,96	9121644606
		125	2,90	9121644607
		160	5,90	9121644608
		200	10,20	9121644609

The mount is supplied complete with shaft and mounting screws for attachment to cylinder.

According to ISO

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	22	33	26	10	10	11	15,0	22	142
40	54	24	35	28	12	12	12	21,0	28	160
50	64	32	39	32	12	12	13	19,5	28	170
63	76	39	47	40	16	16	17	26,0	36	190
80	94	48	57	50	16	16	17	26,0	38	210
100	110	62	67	60	20	20	21	29,0	43	230
125	135	70	77	70	25	25	26	35,0	50	275
160	175	92	97	90	30	30	31	39,0	57	315
200	212	117	97	90	30	30	31	40,0	60	335

S = Stroke length



## Clevis bracket MP2

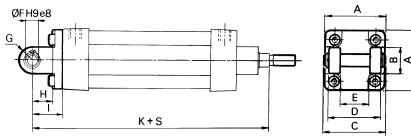
Intended for flexible mounting of cylinder. This bracket can be combined with clevis bracket MP4.	32	0,11	9121644701
Materials: Body for Ø32-Ø100 mm: anodised aluminium. Body for Ø125-Ø200 mm: zink-plated spheroidal graphite iron. Shaft of hardened steel.	40	0,17	9121644702
	50	0,23	9121644703
	63	0,39	9121644704
	80	0,65	9121644705
	100	1,10	9121644706
	125	3,60	9121644707
	160	6,90	9121644708
	200	11,00	9121644709

The mount is supplied complete with shaft and mounting screws for attachment to cylinder.

According to ISO

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	22	52	45	26	10	11	15,0	22	142
40	54	24	59	52	28	12	12	21,0	28	160
50	64	32	67	60	32	12	13	19,5	28	170
63	76	39	77	70	40	16	17	26,0	36	190
80	94	48	97	90	50	16	17	26,0	38	210
100	110	62	117	110	60	20	21	29,0	43	230
125	135	70	137	130	70	25	26	35,0	50	275
160	175	92	177	170	90	30	31	39,0	57	315
200	212	117	177	170	90	30	31	40,0	60	335

S = Stroke length



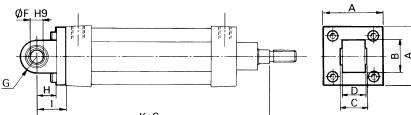
## Swivel mount with rubber bushing

For swivel mounting of the cylinder. The bronze bushing with vulcanized rubber sleeve provides a degree of elasticity. For light-duty applications. Max. 7 bar.	40	0,14	9121658802
This mount can be combined with the MP2 swivel mount.	50	0,18	9121658803
Materials: Body anodised aluminium. Bronze bushing with vulcanized rubber sleeve.	63	0,41	9121658804

Materials:  
Body anodised aluminium.  
Bronze bushing with vulcanized rubber sleeve.

According to CETOP RP 107 P

Cylinder bore mm	A mm	B mm	C mm	D mm	F mm	G mm	H mm	I mm	K mm
40	54	31	27,0	22	12	15,5	21,0	28	160
50	64	31	31,0	26	12	15,5	19,5	28	170
63	76	43	39,5	35	16	21,5	26,0	36	190

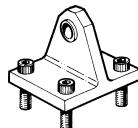


# C41

# Mountings

## Cylinder mountings

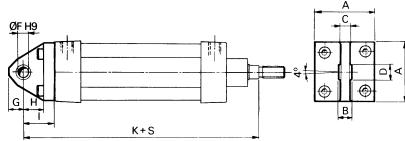
Type	Description	Cyl. bore Ø mm	Weight kg	Order code
<b>Swivel rod bracket</b>	Intended for flexible mounting of cylinder. The swivel rod permits lateral articulation. The bracket can be combined with clevis bracket MP4	32	0,07	9121568601
	Materials: Body for Ø32-Ø100 mm: anodised aluminium. Body for Ø125-Ø200 mm: zinc-plated spheroidal graphite iron. Swivel bearing of hardened steel.	40	0,11	9121568602
		50	0,14	9121568603
		63	0,28	9121568604
		80	0,28	9121568605
		100	0,77	9121568606
		125	2,40	9121568607
		160	4,80	9121568608
		200	7,00	9121568609



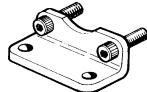
Supplied complete with mounting screws for attachment to cylinder.

Cylinder bore mm	A mm	B mm	c mm	D mm	F mm	G mm	H mm	I mm	K mm
32	48	9	7,5	13,0	10	12,5	15,0	22	142
40	54	12	9,0	15,5	12	15,5	21,0	28	160
50	64	12	9,0	15,5	12	16,5	19,5	28	170
63	76	16	12,5	20,0	16	19,5	26,0	36	190
80	94	16	12,5	20,0	16	21,5	26,0	38	210
100	110	20	16,0	25,0	20	25,5	29,0	43	230
125	135	25	20,5	30,5	25	30,0	35,0	50	275
160	175	30	25,0	34,0	30	35,0	39,0	57	315
200	212	30	25,0	34,0	30	35,0	40,0	60	335

S = Stroke length



## Foot bracket MS1



Intended for fixed mounting of cylinder. This bracket can be fitted to front and rear end covers.

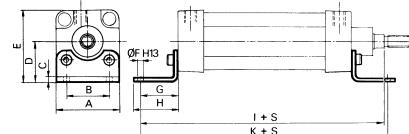
Material  
Body galvanized steel.

These brackets are supplied in pairs, complete with mounting screws for attachment to cylinder.

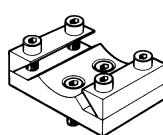
32	0,07	9121644801
40	0,12	9121644802
50	0,18	9121644803
63	0,25	9121644804
80	0,53	9121644805
100	0,79	9121644806
125	1,40	9121644807
160	2,80	9121644808
200	4,70	9121644809

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	48	32	5,0	32	57	7	24	32	144	142
40	54	36	5,0	36	64	9	31	42	163	161
50	64	45	6,0	45	78	9	33	45	175	170
63	76	50	6,0	50	89	9	36	48	190	185
80	94	63	8,0	63	111	12	43	58	215	210
100	110	75	10,5	71	127	14	43	60	230	220
125	135	90	12,5	90	159	16	45	70	270	250
160	175	115	15,5	115	204	18	62	87	320	300
200	212	135	16,0	135	243	22	70	100	345	320

S = Stroke length



## Adjustable barrel mount



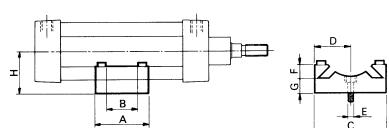
Intended for light-duty applications where space is limited. The cylinder position can be adjusted axially.

Material:  
Body: galvanized steel.

The mounts are supplied complete with bolts for securing to the cylinder.

32	0,30	9121400501
40	0,40	9121400502
50	0,76	9121400503
63	0,87	9121400504

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	H tol. mm
32	40	30	70	35,0	M5	13,5	10,5	32,0	+ 1,0-0,5
40	50	30	77	39,0	M6	12,5	11,5	36,0	+ 1,0-0,5
50	60	30	93	46,5	M8	13,5	15,5	45,5	+ 1,1-0,5
63	70	40	112	56,0	M10	16,5	18,5	54,5	+ 1,1-0,5

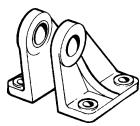


# C41

# Mountings

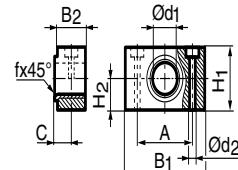
## Cylinder mountings

Type	Description	Cyl. bore Ø mm	Weight kg	Order code
<b>Pivot bracket</b>	Two-part mount for swivel mounting of the cylinder. Can be combined with the MT4 waist mount, MP2 swivel mount, swivel rod mount and swivel rod eye.	32	0,10	9121658401
		40	0,12	9121658402
		50	0,26	9121658403
		63	0,34	9121658404
	Material: Body: galvanized steel. This bracket is supplied in pairs.	80	0,60	9121658405
		100	0,93	9121658406

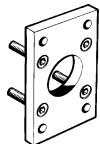


\* Weight of two brackets.

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm
32	30,5	18	21	32	6	6,0	9,5	10	17,5	5,5	5,5	6,0
40	34,5	22	24	36	6	6,0	10,5	12	18,0	5,5	5,5	6,5
50	44,5	30	33	45	8	7,0	12,5	12	23,0	6,6	7,5	9,0
63	49,5	35	37	50	9	7,0	14,5	16	21,5	6,6	9,0	6,0
80	59,0	40	47	63	10	9,5	14,5	16	30,5	9,0	14,0	8,0
100	69,0	50	55	71	10	9,5	18,5	20	33,0	9,0	17,0	8,0



## Flange MF1 and MF2

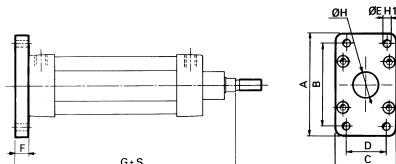


Intended for fixed mounting of cylinder. This bracket can be fitted to front and rear end covers.

Material  
Diam. 32 -63 mm: flange anodised aluminium  
Diam. 80 - 200 mm: flange galvanized steel  
The flange is supplied complete with screws for mounting on the cylinder.

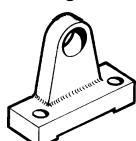
32	0,26	9121644901
40	0,37	9121644902
50	0,52	9121644903
63	0,90	9121644904
80	1,59	9121644905
100	2,19	9121644906
125	3,90	9121644907
160	7,00	9121644908
200	11,60	9121644909

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
32	80	64	48	32	7	10	130	27
40	90	72	54	36	9	13	145	32
50	110	90	64	45	9	13	155	40
63	120	100	76	50	9	16	170	40
80	155	126	94	63	12	18	190	50
100	180	150	110	75	14	18	205	60
125	220	180	135	90	16	20	245	72
160	280	230	175	115	18	22	280	92
200	320	270	212	135	22	25	300	92



S = Stroke length

## Bearing bracket



Intended for use with centre trunnion MT4.

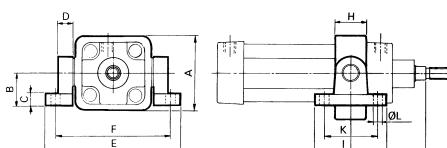
Material  
Diam. 32 -80 mm: body anodised aluminium  
Diam. 100 mm: body galvanized cast iron

The bearing brackets are supplied in pairs.

\*Weight per two pieces.

32	0,06	9121569301
40	0,12	9121569302
50	0,24	9121569303
63	0,44	9121569304
80	0,66	9121569305
100	2,20	9121569306
125	2,20	9121569306
160	4,40	9121569307
200	6,00	9121569308

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm	L mm
32	55	21	10	12	88	78	63,5	25	37	27	5,5
40	65	22	11	16	103	91	76,0	25	55	44	6,6
50	75	35	14	16	125	106	85,5	30	82	65	9,0
63	90	40	16	20	156	134	94,5	35	99	80	9,0
80	110	48	18	20	178	152	109,0	40	118	96	11,0
100	132	48	22	25	206	182	119,5	45	118	96	11,0
125	160	48	22	25	234	210	141,0	55	118	96	11,0
160	200	57	28	32	308	278	166,0	58	142	114	13,0
200	250	70	32	32	356	322	184,0	64	172	140	17,0



Measure G see page 17.

# C41

# Mountings

## Cylinder and piston rod mountings

Type	Description	Cyl. bore Ø mm	Weight kg	Order code
<b>Centre trunnion MT4</b>	Intended for moveable cylinder mounting. Note that the mount is fitted to the cylinder at a distance $G_{std}$ as shown in the drawing. A fitted trunnion mount cannot be moved. If a different G dimension is required, or if the mount is to be supplied separately, this must be stated. See order key on page 7	32	0,24	<b>9123971401</b>
		40	0,39	<b>9123971402</b>
		50	0,63	<b>9123971403</b>
		63	0,90	<b>9123971404</b>
		80	1,62	<b>9123971405</b>
		100	2,37	<b>9123971406</b>
		125	4,30	<b>9123971407</b>



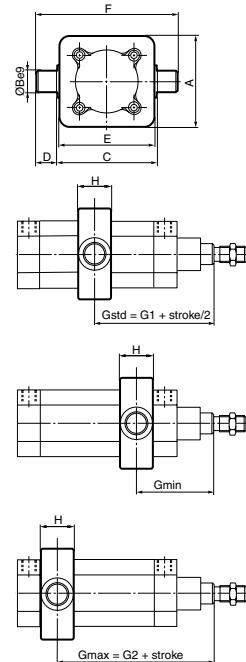
This mounting can be combined with pivot bracket or bearing bracket.

### Material

Body: galvanized steel  
Screws and taps: stainless steel

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	Gmin* mm	G1* mm	G2* mm	H mm
32	55	12	50	12	49	74	64	73,0	82	25
40	65	16	63	16	61	95	72	82,5	93	25
50	75	16	75	16	73	107	80	90,0	100	30
63	90	20	90	20	88	130	89	97,5	106	35
80	110	20	110	20	108	150	102	110,0	118	40
100	132	25	132	25	130	182	115	120,0	125	45
125	160	25	160	25	158	210	138	145,0	152	55
160	200	32	200	32	196	264	167	170,0	173	58
200	250	32	250	32	246	314	188	185,0	185	64

\* Tolerance =  $\pm 2$



## Swivel rod eye



Intended for articulated mounting of the cylinder. Swivel rod eye can be combined with clevis bracket MP4. Maintenance-free PTFE.

Material:  
Swivel rod eye, nut: galvanized steel.  
Swivel bearing according to DIN 648K: Hardened steel.

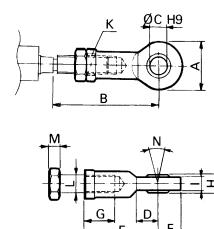
The mounting is supplied with a lock nut.

32	0,08	<b>P1C-4KRS</b>
40	0,12	<b>P1C-4LRS</b>
50	0,25	<b>P1C-4MRS</b>
63	0,25	<b>P1C-4MRS</b>
80	0,46	<b>P1C-4PRS</b>
100	0,46	<b>P1C-4PRS</b>
125	1,28	<b>P1C-4RRS</b>
160	1,80	<b>P1C-4SRS</b>
200	1,80	<b>P1C-4SRS</b>

## ISO 8139

Cylinder bore mm	A mm	B <sub>min</sub> mm	B <sub>max</sub> mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K* mm	L mm	M mm	N °
32	28	49	55	10	15	43	14	20	14	10,5	17	M10x1,25	5	26
40	32	57	62	12	17	50	16	22	16	12,0	19	M12x1,25	7	26
50	42	72	80	16	23	64	21	28	21	15,0	22	M16x1,5	8	30
63	42	72	80	16	23	64	21	28	21	15,0	22	M16x1,5	8	30
80	50	86	97	20	26	77	25	33	25	18,0	30	M20x1,5	9	28
100	50	86	97	20	26	77	25	33	25	18,0	30	M20x1,5	9	28
125	70	122	137	30	37	110	35	51	37	25,0	41	M27x2	10	34
160	80	139	161	35	41	125	40	56	43	28,0	50	M36x2	14	30
200	80	139	161	35	41	125	40	56	43	28,0	50	M36x2	14	30

\*Jaw width



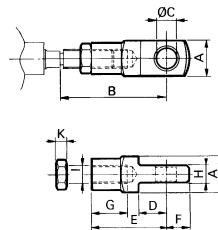
# C41

# Mountings

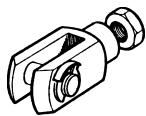
## Piston rod mountings

Type	Description	Cyl. bore Ø mm	Weight kg	Order code
<b>Piston rod eye</b>	Intended for articulated mounting of the cylinder. This mounting can combine with clevis bracket MP4.	32	0,08	<b>9121647001</b>
		40	0,13	<b>9121647002</b>
		50	0,32	<b>9121647003</b>
	Material: Piston rod eye: Galvanized steel.	63	0,32	<b>9121647003</b>
		80	0,59	<b>9121647005</b>
	The mounting is supplied with a lock nut.	100	0,59	<b>9121647005</b>

Cylinder bore mm	A mm	Bmin mm	Bmax mm	c mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	20	46	52	10	15	40	12	16	10	M10x1.25	5
40	24	55	61	12	18	48	14	17	12	M12x1.25	7
50	32	75	83	16	24	64	19	24	16	M16x1.5	8
63	32	75	83	16	24	64	19	24	16	M16x1.5	8
80	40	89	100	20	30	80	25	31	20	M20x1.5	9
100	40	89	100	20	30	80	25	31	20	M20x1.5	9



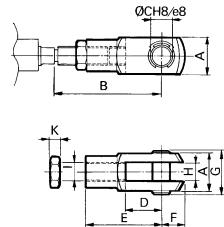
## Clevis

	Intended for articulated mounting of the cylinder.	32	0,09	<b>P1C-4KRC</b>
	Material: Clevis and clip galvanized steel. Pin: Hardened steel	40	0,15	<b>P1C-4LRC</b>
		50	0,35	<b>P1C-4MRC</b>
		63	0,35	<b>P1C-4MRC</b>
		80	0,75	<b>P1C-4PRC</b>
		100	0,75	<b>P1C-4PRC</b>
	The mounting is supplied complete with axle and lock nut.	125	2,10	<b>P1C-4RRC</b>
	Clevis bracket with M24x2 thread available on request.	160	4,04	<b>P1C-4SRC</b>
		200	4,04	<b>P1C-4SRC</b>

32	0,09	<b>P1C-4KRC</b>
40	0,15	<b>P1C-4LRC</b>
50	0,35	<b>P1C-4MRC</b>
63	0,35	<b>P1C-4MRC</b>
80	0,75	<b>P1C-4PRC</b>
100	0,75	<b>P1C-4PRC</b>
125	2,10	<b>P1C-4RRC</b>
160	4,04	<b>P1C-4SRC</b>
200	4,04	<b>P1C-4SRC</b>

## ISO 8140

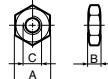
Cylinder bore mm	A mm	B <sub>min</sub> mm	B <sub>max</sub> mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm
32	20	46	52	10	20	40	12	28	10	M10x1.25	5
40	24	55	61	12	24	48	14	32	12	M12x1.25	7
50	32	72	80	16	32	64	19	42	16	M16x1.5	8
63	32	72	80	16	32	64	19	42	16	M16x1.5	8
80	40	89	100	20	40	80	25	50	20	M20x1.5	9
100	40	89	100	20	40	80	25	50	20	M20x1.5	9
125	55	122	136	30	54	110	38	72	30	M27x2	12
160	70	158	180	35	72	144	44	88	35	M36x2	14
200	70	158	180	35	72	144	44	88	35	M36x2	14



## Rod nut

	Intended for articulated mounting of the cylinder.	32	0,01	<b>9128985601</b>
	Material: Galvanized steel	40	0,02	<b>0261109910</b>
		50	0,04	<b>9128985603</b>
		63	0,04	<b>9128985603</b>
		80	0,07	<b>0261109911</b>
		100	0,07	<b>0261109911</b>
		125	0,13	<b>0261109912</b>
		160	0,45	<b>9128985606</b>
		200	0,45	<b>9128985606</b>

Cylinder bore mm	A mm	B mm	C mm
32	17	5,0	M10x1.25
40	19	6,0	M12x1.25
50	24	8,0	M16x1.5
63	24	8,0	M16x1.5
80	30	10,0	M20x1.5
100	30	10,0	M20x1.5
125	41	13,5	M27x2
160	55	14,0	M36x2
200	55	14,0	M36x2



# C41

# Mountings

## Combinations

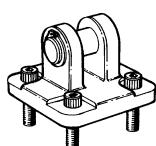
Type

Description

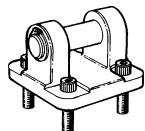
Cyl. bore  
Ø mm

Order code

### Clevis bracket MP4



### Clevis bracket MP2



In this combination the clevis bracket MP4 is attached to the indicated cylinder.

MP4\*

		MP2
32	9121644601	9121644701
40	9121644602	9121644702
50	9121644603	9121644703
63	9121644604	9121644704
80	9121644605	9121644705
100	9121644606	9121644706
125	9121644607	9121644707
160	9121644608	9121644708
200	9121644609	9121644709

Cylinder

bore mm

A

B

C

D

E

F

G

H

I

J

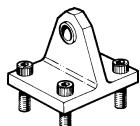
K

L

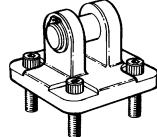
mm

S = stroke

### Swivel rod bracket



### Clevis bracket MP4



In this combination the swivel rod bracket is attached to the indicated cylinder.

Swivel eye bracket

	MP4
32	9121568601
40	9121568602
50	9121568603
63	9121568604
80	9121568605
100	9121568606
125	9121568607
160	9121568608
200	9121568609

Cylinder

bore mm

A

B

C

D

E

F

G

H

I

J

K

L

mm

mm

mm

mm

mm

mm

mm

mm

mm

S = stroke

### Swivel rod eye



### Pivot bracket



In this combination the swivel rod eye is attached to the indicated cylinder.

Shaft is ordered separately.

Rod eye

	Pivot bracket
32	9126301101
40	9126301102
50	9126301103
63	9126301103
80	9126301104
100	9126301104

Pin

	Pin
32	9126342607
40	9126342603
50	9126342608
63	9126342608
80	9126342609
100	9126342609

IS08139

Cylinder

bore mm

A

B

C

D

E

mm

mm

mm

mm

mm

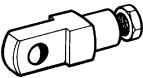
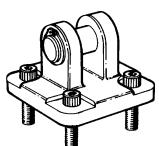
mm

S = stroke

# C41

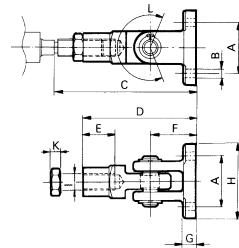
# Mountings

## Combinations

Type	Description	Cyl. bore Ø mm	Order code
<b>Piston rod eye</b>	<b>Clevis bracket MP4</b>	In this combination the piston rod eye is attached to the indicated cylinder.	MP4
			
		32	Rod eye 9121647001
		40	9121647002
		50	9121647003
		63	9121647003
		80	9121647005
		100	9121647005
			9121644601
			9121644602
			9121644604
			9121644604
			9121644606
			9121644606

Cylinder bore mm	A mm	B mm	C <sub>min</sub> mm	C <sub>max</sub> mm	D mm	E mm	F mm	G mm	H mm	I mm	K mm	L mm
32	32,5	5,5	71	77	62	16	22	7	48	M10x1.25	6	208°
40	36,8	6,6	85	91	76	17	28	7	54	M12x1.25	7	223°
50	55,9	9,0	111	119	92	24	28	10	76	M16x1.5	8	212°
63	55,9	9,0	111	119	100	24	36	10	76	M16x1.5	8	217°
80	84,1	11,0	129	140	118	31	38	14	110	M20x1.5	9	210°
100	84,1	11,0	129	140	123	31	43	14	110	M20x1.5	9	205°

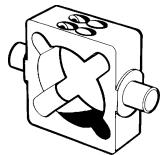
S = Stroke length



## Pivot bracket



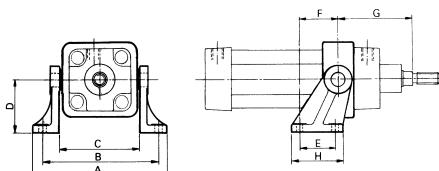
## Centre trunnion MT4



\*When ordering a cylinder with factory-fitted centre trunnion, see order key on pages 6 and 7.

Pivot bracket	MT4
9121658402	9123971401
9121658403	9123971401
9121658404	9123971402
9121658405	9123971402
9121658404	9123971403
9121658405	9123971403
9121658406	9123971404
9121658406	9123971405

Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm
32	87	74	50	36	22	24	34,5
32	98	83	50	45	30	33	44,5
40	108	93	63	50	35	37	49,5
40	127	107	63	63	40	47	59,0
50	120	105	75	50	35	37	49,5
50	139	119	75	63	40	47	59,0
63	160	140	90	71	50	55	69,0
80	180	160	110	71	50	55	69,0



Measure G see page 17.

**Combinations**

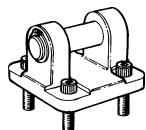
Type

Description

Cyl. bore  
Ø mm

Order code

**Pivot bracket**

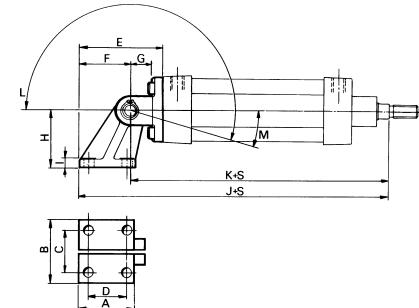
**Clevis bracket MP2**


In this combination the clevis bracket MP2 is attached to the indicated cylinder.

Pivot bracket

32	<b>9121658401</b>	<b>MP2</b>
40	<b>9121658402</b>	<b>9121644701</b>
50	<b>9121658403</b>	<b>9121644702</b>
63	<b>9121658404</b>	<b>9121644703</b>
80	<b>9121658405</b>	<b>9121644704</b>
100	<b>9121658406</b>	<b>9121644705</b>

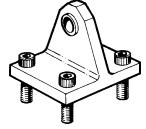
100	<b>9121658406</b>	<b>9121644706</b>
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Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L°	M°
32	30,5	50	38	18	49,5	27,5	15,0	32	6	169,5	142	180	30
40	34,5	53	41	22	58,5	30,5	21,0	36	6	190,5	160	190	25
50	44,5	63	50	30	68,5	40,5	19,5	45	8	210,5	170	180	22
63	49,5	65	52	35	80,5	44,5	26,0	50	9	234,5	190	177	20
80	59,0	83	66	40	90,0	57,0	26,0	63	10	267,0	210	170	20
100	70,0	92	76	50	108,0	65,0	29,0	71	10	295,0	230	172	20

S = Stroke length

**Pivot bracket**

**Swivel rod bracket**


In this combination the swivel rod bracket is attached to the indicated cylinder.

Pivot bracket

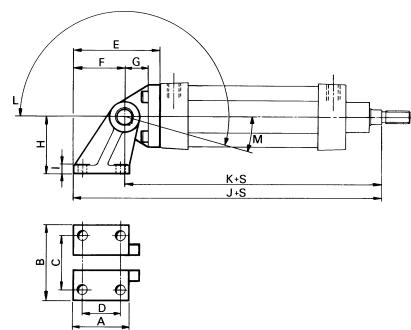
32	<b>9121658401</b>	<b>Swivel eye bracket</b>
40	<b>9121658402</b>	<b>9121568601</b>
50	<b>9121658403</b>	<b>9121568602</b>
63	<b>9121658404</b>	<b>9121568603</b>
80	<b>9121658405</b>	<b>9121568604</b>
100	<b>9121658406</b>	<b>9121568605</b>

Swivel eye bracket

32	<b>9121658401</b>	<b>9121568601</b>
40	<b>9121658402</b>	<b>9121568602</b>
50	<b>9121658403</b>	<b>9121568603</b>
63	<b>9121658404</b>	<b>9121568604</b>
80	<b>9121658405</b>	<b>9121568605</b>
100	<b>9121658406</b>	<b>9121568606</b>

Pin

32	<b>9126342601</b>
40	<b>9126342602</b>
50	<b>9126342603</b>
63	<b>9126342604</b>
80	<b>9126342605</b>
100	<b>9126342606</b>

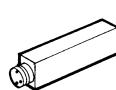
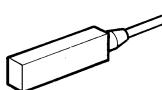


Cylinder bore mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L°	M°
32	30,5	48	32	18	49,5	27,5	15,0	32	6	169,5	142	180	30
40	34,5	49	36	22	58,5	30,5	21,0	36	6	190,5	160	190	25
50	44,5	60	45	30	68,5	40,5	19,5	45	8	210,5	170	180	22
63	49,5	61	46	35	80,5	44,5	26,0	50	9	234,5	190	177	20
80	59,0	80	60	40	90,0	57,0	26,0	63	10	267,0	210	170	20
100	70,0	89	70	50	108,0	65,0	29,0	71	10	295,0	230	172	20

S = Stroke length

### Reed switch sensors

The reed switch sensors incorporate a well-proven, universal-voltage. This together with LED indication, two-wire connections and compact dimensions make them suitable for a wide range of applications. They can operate with PLC control systems as well as with conventional valves.



#### Technical data

Design	Reed
Output	Making
Voltage range	
9126344301 and 9126344302	10-250 VAC/VDC
Voltage range,	
9126344309	10-60 VAC/75 VDC
Voltage drop	max. 2,2 V
Load current	max. 0,5 A
	min. 2 mA
Breaking power (resistive)	max. 30/20 VA/W
Actuating distance	min. 9 mm
Hysteresis	1 mm
Repeatability accuracy	±0,01 mm
On/off switching frequency	max. 500 Hz
On switching time	max. 0,6 ms
Off switching time	max. 0,05 ms
Encapsulation	IP 67 (DIN 40 050)
Temperature range	-25 °C to +80 °C
Indication	LED, yellow
Material housing	PEI
Material mould	Epoxy
Weight sensor incl. 3 m cable	68 g
Cable	PVC 2x0,25 mm <sup>2</sup>
Weight cable excl. connector	28 g/m
Weight sensor incl. male part connector	5,8 g
Connector type	Diam. 8, snap-on
Weight female part connector	1,8 g
Mounting	Attachment bracket
Material bracket	Anodised aluminium
Material screw	Stainless steel

#### Ordering data

Order code	Output	Cable connection	Cable length	Weight kg
<b>Reed sensors</b>				
<b>9126344301</b>	making	straight *)	3 m	0,08
<b>9126344302</b>	making	straight *)	10 m	0,23
<b>9126344309</b>	making	straight **)		0,01

#### Attachment bracket for C41

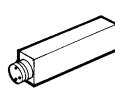
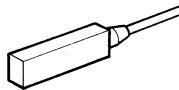


For reed and electronic sensors

<b>9126344361</b>	32 to 50	0,02
<b>9126344362</b>	63 to 80 and 160 to 200	0,02
<b>9126344363</b>	100 to 125	0,02

### Electronic sensors

These sensors are of solid-state type, with no moving parts. Short-circuit and transient protection is incorporated as standard. The integral electronics make these sensors suitable for applications with very high switching frequencies and demands for extremely long service life.



#### Technical data

Design	Inductive
Output	PNP, N.O.
Voltage range	10-30 VDC
Ripple	max ±5%
Voltage drop	max. 1,6 V
Load current	max. 200 mA
Breaking power (resistive)	max. 6 W
Capacitive load	max 0,33 µF
Internal consumption	10 mA
Actuating distance	min. 9 mm
Hysteresis	0,8 mm
Repeatability accuracy	±0,01 mm
On/off switching frequency	max. 500 Hz
On switching time	max. 0,8 ms
Off switching time	max. 0,04 ms
Encapsulation	IP 67 (DIN 40 050)
Temperature range	-25 °C till +80 °C
Indication	LED, yellow
Material housing	PEI
Material mould	Epoxy
Weight sensor incl. 3 m cable	70 g
Cable	PVC 3x0,25 mm <sup>2</sup>
Weight cable excl. connector	28 g/m
Weight sensor incl. male part connector	6 g
Connector type	Diam. 8, snap-on
Weight female part connector	1,8 g
Mounting	Attachment bracket
Material bracket	Anodised aluminium
Material screw	Stainless steel

#### Ordering data

Order code	Output	Cable connection	Cable length	Weight kg
<b>Electronic sensors</b>				
<b>9126344321</b>	PNP, N.O.	straight *)	3 m	0,07
<b>9126344322</b>	PNP, N.O.	straight *)	10 m	0,22
<b>9126344329</b>	PNP, N.O.	straight **)		0,01

#### Cables for sensors, complete with 8 mm round connector



<b>9126344341</b>	Cable, Flex PVC, 3 m	0,07
<b>9126344342</b>	Cable, Flex PVC, 10 m	0,21
<b>9126344343</b>	Cable, Super Flex PVC, 3 m	0,07
<b>9126344344</b>	Cable, Super Flex PVC, 10 m	0,21
<b>9126344345</b>	Cable, Polyuretan, 3 m	0,01
<b>9126344346</b>	Cable, Polyuretan, 10 m	0,20

\* Encapsulated cable

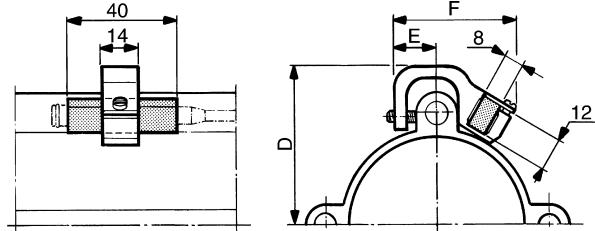
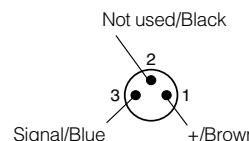
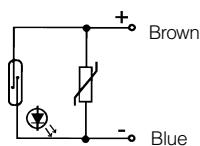
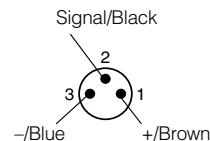
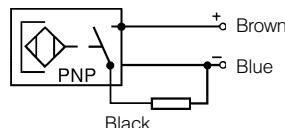
\*\* Cable shall be ordered separately.

Symbols and dimensions, see page 32.

**Dimensions**

For C41 with reed or electronic sensors, type: 91263443••.

Cylinder bore mm	D mm	E mm	F mm
32	36	12	40
40	40	12	40
50	46	12	40
63	58	17	45
80	67	16	45
100	82	16	49
125	96	16	49
160	112	17	45
200	134	17	45


**Symbol reed sensor**

**Symbol electronic sensor**


Colours according to cable      9126344341  
                                        9126344342