



Basic version and push/pull rod



Description

12 _ _ .**Ø.stroke.**

- **A** = Adjustable cushions (from Ø 16)
- **M** = Magnetic piston (from Ø 10)
- **X** = Stainless steel rod
- **A.M** = Cushioned with magnetic piston
- **A.M.X** = Cushioned, magnetic piston and stainless steel rod
- **E** = Hexagonal rod (only for 1260, 1262, 1271, 1272)
- **E.M** = Hexagonal rod magnetic (only for 1260, 1271, 1272)
- **E.X** = Hexagonal rod steel (only for 1260, 1271, 1272)
- **L** = Air inlet at 90° version (only for without rear eye version: 1261, 1273, 1274)
- **T** = Seals Therban version

- **60** = Basic version
- **61** = Without rear eye
- **62** = Push/Pull rod version
- **71** = Basic version front spring from Ø 12 (max stroke 40 mm)
- **72** = Basic version rear spring from Ø 12 (max stroke 40 mm)
- **73** = Without rear eye front spring from Ø 12 (max stroke 40 mm)
- **74** = Without rear eye rear spring from Ø 12 (max stroke 40 mm)

Standard strokes

Ø 8 and Ø 10: 15-25-50-75-80-100 mm

Ø 12 and Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm

Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

Ø 32, Ø 40 and Ø 50: 15-25-50-75-80-150-160-200-250-300-320-350-400-450-500 mm

Magnetic vers. = Ø 10 and Ø 12, 15 mm (for 2 sensors). Other diameters 5 mm.

Piston rod lock



12 60 .Ø.51

- **BS** = Piston rod lock assembly (not allowed as safety device)
- **S** = Piston rod lock bracket (not allowed as safety device)
- **B** = Piston rod lock and housing (not allowed as safety device)

Cylinder c/w piston rod lock

12 _ _ .**Ø.stroke.B** _

(*) see microcyl. codes to order: **1260.Ø.** _ _

NOTE: do not use with stainless steel or hexagonal piston rod

Special performances

Front spring Ø4







Threaded body - front spring






1273.4.10

- 1213.6.5** = Ø 6 stroke 5 mm threaded body M10x1
- 1213.6.20** = Ø 6 stroke 6 mm threaded body M10x1
- 1213.6.20** = Ø 6 stroke 20 mm threaded body M10x1
- 1213.8.5** = Ø 8 stroke 5 mm threaded body M12x1
- 1213.10.3** = Ø 10 stroke 3 mm threaded body M15x1,5
- 1213.10.5** = Ø 10 stroke 5 mm threaded body M15x1,5
- 1213.10.10** = Ø 10 stroke 10 mm threaded body M15x1,5



Sensor clamps	Linear control unit	Foot	Flanges						
1260.Ø.F	1260.Ø.strokeGLB	1200.Ø.01	1200.Ø.02						
	 <table border="1"> <thead> <tr> <th colspan="2">Standard strokes (mm)</th> </tr> </thead> <tbody> <tr> <td>Ø 20</td> <td>100-150-200</td> </tr> <tr> <td>Ø 25</td> <td>100-150-200-250</td> </tr> </tbody> </table>	Standard strokes (mm)		Ø 20	100-150-200	Ø 25	100-150-200-250		
Standard strokes (mm)									
Ø 20	100-150-200								
Ø 25	100-150-200-250								

Piston rod forks		Nut for end cups	Lock nut for end cup	Rear eye
1200.Ø.04	1200.Ø.04/1	1200.Ø.05		1200.Ø.03
(with pin)	(with clips)			
		from Ø 8 to Ø 25	from Ø 32 to Ø 50	



Basic version and push/pull rod



Description

12 __ __ .**Ø.stroke.**

- M** = Basic version, magnetic piston
- A.M** = Cushioned with magnetic piston (from Ø 16)
- L** = Air inlet at 90° version (only for without rear eye version: 1281, 1293, 1294)
- T** = Seals Therban version

- 80** = Basic version, magnetic piston
- 81** = Without rear eye, magnetic piston
- 82** = Push/Pull rod version, magnetic piston
- 91** = Basic version front spring, magnetic piston (max stroke 50 mm)
- 92** = Basic version rear spring, magnetic piston from Ø 16 (max stroke 50 mm)
- 93** = Without rear eye front spring, magnetic spring (max stroke 50 mm)
- 94** = Without rear eye rear spring from Ø 16, magnetic spring (max stroke 50 mm)

Standard strokes

Ø 8 and Ø 10: 15-25-50-75-80-100 mm

Ø 12 and Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm

Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm

Ø 32: 15-25-50-75-80-150-160-200-250-300-320-350-400-450 -500 mm

Piston rod lock



1260 .**Ø.51**





- BS** = Piston rod lock assembly (not allowed as safety device)
- S** = Piston rod lock bracket (not allowed as safety device)
- B** = Piston rod lock and housing (not allowed as safety device)






Cylinder c/w piston rod lock

12 __ __ .**Ø.stroke.B** _


(*) see microcyl. codes to order: **1280.Ø.** __ __





NOTE: do not use with stainless steel but only chromed stainless steel piston rod




Sensor clamps		Linear control unit	Foot	Flanges
1280.Ø.FS	1280.Ø.F	1260.Ø.strokeGLB	1200.Ø.01	1200.Ø.02
For miniaturized sensors series 1580 (from Ø8 to Ø32)	For standard sensors series 1500 (from Ø16 to Ø32)	 Standard strokes (mm) Ø 20 100-150-200 Ø 25 100-150-200-250		
				

Piston rod forks		Nut for end cups	Lock nut for end cup	Rear eye
1200.Ø.04	1200.Ø.04/1	1200.Ø.05		1200.Ø.03
(with pin)	(with clips)			
		from Ø 8 to Ø 25	Ø 32	







	Description
<p>Magnetic basic version and push/pull rod magnetic version</p> 	<p>128 .Ø.stroke.</p> <ul style="list-style-type: none"> — MX = Inox magnetic version, NBR seals and poliur. piston seals — MXV = Inox magnetic version, Viton seals — AMX = Inox magnetic ver. with cushions, NBR seals and poliur. piston seals — AMXV = Inox magnetic version with cushions, Viton seals <ul style="list-style-type: none"> — 0 = Basic version — 2 = Push/pull rod magnetic version <p>Standard strokes</p> <p>Ø 16: 15-25-50-75-80-100-150-160-200-250-300 mm</p> <p>Ø 20 and Ø 25: 15-25-50-75-80-100-150-160-200-250-300-320-350-400 mm</p> <p>Ø 32: 15-25-50-75-80-100-150-160-200-250-300-320-350-400-450-500 mm</p>

Foot	Flange	Rear eye	Piston rod fork
<p>1200.Ø.01X</p> <p>(stainless stell AISI 304)</p>	<p>1200.Ø.02X</p> <p>(stainless stell AISI 304)</p>	<p>1200.Ø.03X</p> <p>(stainless stell AISI 304)</p>	<p>1200.Ø.04X</p> <p>(stainless stell AISI 304)</p>
			

Nut for end cups	Lock nut for end cup	Sensor clamps	
<p>1200.Ø.05X</p>		<p>1280.Ø.FSX</p>	<p>1280.Ø.FX</p>
 <p>from Ø 16 to Ø 25</p>	 <p>Ø 32</p>	<p>For miniaturized sensors series 1580</p>	<p>For standard sensors series 1500</p> 



		Description
Basic version and push/pull    	Double acting	<p>130 .Ø.stroke. (Steel barrel)</p> <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull <ul style="list-style-type: none"> — 0 = CNOMO — 1 = CETOP — 2 = ISO <p>130 .Ø.stroke. . . .</p> <ul style="list-style-type: none"> — A = Steel barrel — B = Burnished barrel — C = Brass barrel <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull <ul style="list-style-type: none"> — 0 = CNOMO — 1 = CETOP — 2 = ISO
	Single acting	<p>130 .Ø.stroke. 01.</p> <ul style="list-style-type: none"> — MA = Front spring (stroke max 50 mm) — MP = Rear spring (stroke max 50 mm) <ul style="list-style-type: none"> — 0 = CNOMO — 1 = CETOP — 2 = ISO

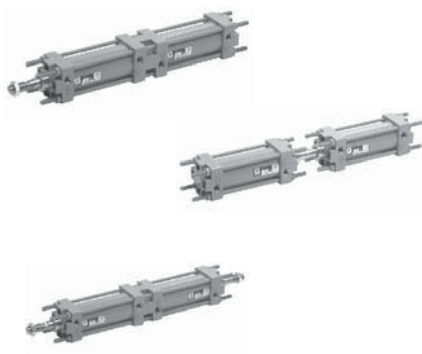
Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200

Standard strokes

from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.

NOTE: to order cylinder with stainless steel rods add an " X" to the cylinder code.

Tandem version



Tandem push:

Use basic cylinder plus the words "mounted in tandem 03"

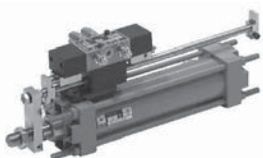
Tandem with a common rod:

Use basic cylinder plus the words "mounted in tandem 04"

Tandem with opposite rods:

Use basic cylinder plus the words "mounted in tandem 05"




Motor cylinders










1310.Ø.stroke.01




Bore Ø 32-40-50-63-80-100




Front flange		Rear flange		Standard feet		Short feet
CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CNOMO-CETOP-ISO
1300.Ø.03F	1301.Ø.03F	1300.Ø.04F	1301.Ø.04F	1300.Ø.05F	1301.Ø.05F	1300.Ø.05/1F
						




Large internal and external feet		Front clevis		Rear clevis complete with pin	
CNOMO		CNOMO	CETOP-ISO	CNOMO	CETOP-ISO
1300.Ø.06F	1300.Ø.07F	1300.Ø.08F	1301.Ø.08F	1300.Ø.09F	1301.Ø.09F
					

Rear male clevis	Rear clevis bracket	Trunnion with support bracket	Intermediate trunnion
CETOP-ISO	CNOMO	CNOMO	CNOMO/CETOP-ISO
1301.Ø.09/1F	1300.Ø.10F	1300.Ø.11F	1300.Ø.12F
			




Fork with pin			Male fork			Fork with clips (from Ø 32 to Ø 100)		
CNOMO	CETOP	ISO	CNOMO	CETOP	ISO	CNOMO	CETOP	ISO
1300.Ø.13F	1301.Ø.13F	1302.Ø.13F	1300.Ø.14F			1300.Ø.13/1F	1301.Ø.13/1F	1302.Ø.13/1F
								




Rod lock nut		
CNOMO	CETOP	ISO
1300.Ø.18F	1301.Ø.18F	1302.Ø.18F
		






		Description
<p>Basic version and push/pull</p>	<p>double acting not magnetic</p>	<p>130 .Ø.stroke. (Steel barrel)</p> <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull <ul style="list-style-type: none"> — 3 = CNOMO — 4 = CETOP — 5 = ISO <p>130 .Ø.stroke.</p> <ul style="list-style-type: none"> — A = Steel barrel — C = Burnished barrel — D = Brass barrel <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull <ul style="list-style-type: none"> — 3 = CNOMO — 4 = CETOP — 5 = ISO
	<p>double acting magnetic</p>	<p>130 .Ø.stroke. (Brass barrel)</p> <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull <ul style="list-style-type: none"> — 6 = CNOMO — 7 = CETOP — 8 = ISO
	<p>Simple acting magnetic</p>	<p>130 .Ø.stroke. 01.</p> <ul style="list-style-type: none"> — MA = Front spring (stroke max 50 mm) — MP = Rear spring (stroke max 50 mm) <ul style="list-style-type: none"> — 3 = CNOMO — 4 = CETOP Non-magnetic version — 5 = ISO — 6 = CNOMO — 7 = CETOP Magnetic version — 8 = ISO
<p>Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200</p>		
<p>Standard strokes from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.</p>		
<p>NOTE: to order cylinder with stainless steel rods add an " X" to the cylinder code.</p>		
<p>Tandem push</p>		<p>Tandem push: Use basic cylinder plus the words "mounted in tandem 03"</p> <p>Tandem with a common rod: Use basic cylinder plus the words "mounted in tandem 04"</p> <p>Tandem with opposite rods: Use basic cylinder plus the words "mounted in tandem 05"</p>




Front flange		Rear flange		Standard feet		Short feet
CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CNOMO	CETOP-ISO	CNOMO-CETOP-ISO
1303.Ø.03F	1304.Ø.03F	1303.Ø.04F	1304.Ø.04F	1303.Ø.05F	1304.Ø.05F	1303.Ø.05/1F
						

Large internal and external feet		Front clevis		Rear clevis complete with pin	
CNOMO	CNOMO	CNOMO	CETOP-ISO	CNOMO	CETOP-ISO
1303.Ø.06F	1303.Ø.07F	1303.Ø.08F	1304.Ø.08F	1303.Ø.09F	1304.Ø.09F
					

Rear male clevis	Rear clevis bracket	Trunnion with support bracket	Intermediate trunnion
CETOP-ISO	CNOMO	CNOMO	
1304.Ø.09/1F	1303.Ø.10F	1303.Ø.11F	1300.Ø.12F
			

Fork with pin			Male fork	Fork with clips		
CNOMO	CETOP	ISO	CNOMO	CNOMO	CETOP	ISO
1300.Ø.13F	1301.Ø.13F	1302.Ø.13F	1300.Ø.14F	1300.Ø.13/1F	1301.Ø.13/1F	1302.Ø.13/1F
						

Rod lock nut		
CNOMO	CETOP	ISO
1300.Ø.18F	1301.Ø.18F	1302.Ø.18F
		




Sensor brackets

1306.A (from Ø 32 to Ø 63)




1306.B (from Ø 80 to Ø 125)




1306.C (from Ø 160 to Ø 200)







		Description
<p>Basic version and push/pull</p>	<p>Double acting</p>	<p>13 .Ø.stroke.</p> <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull — 19 = Magnetic chromed rod — 20 = Magnetic stainless steel — 21 = Non magnetic
	<p>Single acting</p>	<p>13 .Ø.stroke. 01.</p> <ul style="list-style-type: none"> — MA = Front spring (stroke max 50 mm) — MP = Rear spring (stroke max 50 mm) — 19 = Magnetic chromed rod — 20 = Magnetic stainless steel — 21 = Non magnetic
<p>Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100 - Ø125 - Ø160 - Ø200</p> <p>Standard strokes from 0 to 150 every 25 mm; from 150 to 500 every 50 mm; from 500 to 1000 every 100 mm.</p>		
<p>Tandem version</p> 	<p>Tandem push: Use basic cylinder plus the words “mounted in tandem 03”</p> <p>Tandem push: Use basic cylinder plus the words “mounted in tandem 03SI”</p> <p>Tandem with a common rod: Use basic cylinder plus the words “mounted in tandem 04”</p> <p>Tandem with opposite rods: Use basic cylinder plus the words “mounted in tandem 05”</p>	
<p>Non rotating version</p> 	<p>13 .Ø.stroke.</p> <ul style="list-style-type: none"> — 01 = Basic version — 02 = Push/Pull — 48 = Magnetic chromed rod — 49 = Magnetic stainless steel — 50 = Non magnetic <p>Bore: Ø32 - Ø40 - Ø50 - Ø63</p> <p>Standard strokes</p> <p>Ø 32: 25-50-75-80-100-125-150 mm</p> <p>Ø 40: 25-50-75-80-100-125-150-160 mm</p> <p>Ø 50: 25-50-75-80-100-125-150-160-200-250 mm</p> <p>Ø 63: 25-50-75-80-100-125-150-160-200-300-320 mm</p>	











Piston rod lock complete	Piston rod lock bracket	Piston rod lock and housing
1320.Ø.51BS	1320.Ø.51S	1320.Ø.51B
		
Do not use as safety device and with stainless steel rod		
Cylinders for piston rod lock: 13__ . Ø. stroke . __ . B (order the piston rod lock separately)		

Distributor supports	Bases for ISO distributor		Front and rear flange (MF1) (MF2)	
	1320.21	1320.22	1320.Ø.03F	1320.Ø.04F
	ISO 1	ISO 2		
1306.15 = ties (Ø32÷Ø100) 1320.15 = shaped pipe (Ø 32÷Ø40) 1320.16 = shaped pipe (Ø50÷Ø63) 1320.17 = shaped pipe (Ø80÷Ø100) 1320.18 = shaped pipe (Ø125) 1320.19 = shaped pipe (Ø160) 1320.20 = shaped pipe (Ø160)				





Standard feet	Short feet	Front clevis	Rear clevis complete (MP2)	
1320.Ø.05F	1320.Ø.05/1F	1320.Ø.08F	1320.Ø.09F	1320.Ø.20F
(aluminium)	(steel)	(aluminium)	(aluminium)	(steel)
				

Rear male clevis (MP4)		Trunnion with support bracket		
1320.Ø.09/1F	1320.Ø.21F	1320.Ø.11F	1320.Ø.35F	1320.Ø.23F
(aluminium)	(steel)	(aluminium)	(aluminium)	(from Ø32 to Ø100) (steel)
				
				(steel) (from Ø32 to Ø125) (with jointed head according to DIN 648K standards)


Rear clevis - narrow		Rear male clevis		Intermediate trunnion	Support for intermediate trunnion
1320.Ø.30F	1320.Ø.29F	1320.Ø.015F	1320.Ø.25F	1320.Ø.12F	1320.Ø.12/1F
(aluminium)	(steel) (from Ø32 to Ø125)	(aluminium)	(steel) (from Ø32 to Ø125) (with jointed head according to DIN 648K standards)	(steel)	(steel)
					

Fork with pin	Fork with clips (from Ø 32 to Ø 100)	Rod lock nut	Ball joint
1320.Ø.13F	1320.Ø.13/1F	1320.Ø.18F	1320.Ø.32F
			



Self-aligning joint	Standard complete trunnion		
1320.Ø.33F	1320.Ø.22F	1320.Ø.26F	1320.Ø.10F
(from Ø32 to Ø100)	(steel)	(from Ø32 to Ø125) (with jointed head according to DIN 648K standards)	
			

Sensor brackets					
1320.A	1320.B	1320.C	1320.D	1320.E	1320.F
from Ø 32 to Ø 40	from Ø 50 to Ø 63	from Ø 80 to Ø 100	Ø 125	Ø 160	Ø 200

Linear control unit
1320.Ø.stroke.GLB
<p>Standard strokes</p> <p>Ø 32 100-150-200-250-300 mm</p> <p>Ø 40 100-150-200-250-300-350 mm</p> <p>Ø 50 100-150-200-250-300-350-400-450 mm</p> <p>Ø 63 100-150-200-250-300-350-400-450-500 mm</p>
<p>Sensor brackets</p> <p>Cylinder rear side: standard brackets</p> <p>Cylinder front side: 1320.AGL cylinder sensor brackets Ø 32 and 40</p> <p>1320.BGL cylinder sensor brackets Ø 50 and 63</p>




Basic version



Description

13 .Ø.stroke.

- 01 = Basic version
- 01 x = Basic version chromed stainless steel piston rod
- 02 = Push-pull rod version
- 02 x = Push-pull rod vers. chromed stainless steel piston rod
- 06 = Twin rod push-pull version
- 06 x = Twin rod push-pull vers. chromed stainless steel piston rod




- 25 = Magnetic
- 26 = Non-magnetic
- 45 = Magnetic version extended front corer (only for basic version 01 or 01x)
- 47 = Non magnetic version extended front corer (only for basic version 01 or 01x)

Bore: Ø32 - Ø40 - Ø50 - Ø63 - Ø80 - Ø100

Standard strokes

- Ø 32: 25-50-75-100-150-200 mm
- Ø 40: 25-50-75-100-150-200-250 mm
- Ø 50: 25-50-75-100-150-200-250-300 mm
- Ø 63: 25-50-75-100-125-150-160-200-300-320 mm
- Ø80: 25-50-75-100-150-200-250-300-350-400-500 mm
- Ø100: 25-50-75-100-150-200-250-300-350-400-500 mm

Accessories

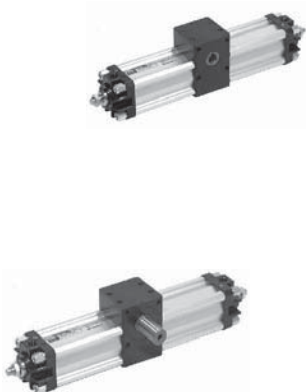
Threaded nipple 1325.Ø.17F	Front flange 1325.Ø.03F	Front foot mounting bracket (short) 1325.Ø.05/1F
		

Sensor brackets

- 1320.A (from Ø 32 to Ø 40)
- 1320.C (from Ø 80 to Ø 100)
- 1320.B (from Ø 50 to Ø 63)
- 1320.D (Ø 125)

Rotary actuators

(series 1330-1333, catalogue 4, section 4)



13 .Ø.*.

- 01 = Without rotating adjustment angle
- 01R = With rotating adjustment angle

- 30 = Female magnetic pinion version
- 31 = Female non magnetic pinion version
- 32 = Male magnetic pinion version
- 33 = Male non magnetic pinion version

* = Rotating angle: 90 - 180 - 270 - 360




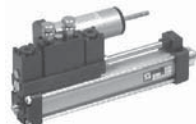




Bore	32	40	50	63	80	100
Torque Nm/bar	0,9	1,7	2,9	5,55	13,2	23,8
Axis load max. kg.	8	10	10	12	18	22
Cushioning angle	60°	60°	50°	50°	40°	40°

Accessories

Sensor brackets

- 1320.A (from Ø 32 to Ø 40)
- 1320.B (from Ø 50 to Ø 63)
- 1320.C (from Ø 80 to Ø 100)
- 1320.D (Ø 125)



	Description		Description
	Extraction regulation - tank in line 1400.stroke.01.1		Compression control with stop 1400.stroke.02.05
	Extraction regulation - lateral tank 1400.stroke.01.2		Extraction control with skip and stop 1400.stroke.02.06
	Compression regulation 1400.stroke.02.2		Double regulation with skip 1400.stroke.03.04
	Double regulation 1400.stroke.03.2		Double regulation with stop 1400.stroke.03.05
	Extraction control with skip 1400.stroke.01.04		Double regulation with skip and stop 1400.stroke.03.06
	Extraction control with stop 1400.stroke.01.05		Hydraulic fluid refill syringe 1400.99.01
	Extraction control with skip and stop 1400.stroke.01.06	Hydraulic and pneumatic PNEUMOIL 01 (1 lt cans) Oil for circuit	
	Compression control with skip 1400.stroke.02.04		

Attention:

Extraction control: it happens when the pneumatic cylinder (connected to speed control) is moving out speed control piston rod

Compression control: it happens when the pneumatic cylinder (connected to speed control) is moving in speed control piston rod

Standard strokes

50-100-150-200-250-300-350-400-450-500 mm

minimum stroke for type 1400.stroke.03.05. and 1400.stroke.03.06, 150 mm



		Description	
<p>Basic version</p>		<p>15 .Ø.stroke.</p> <ul style="list-style-type: none"> — 01 = Double acting version — 11 = Double acting version with magnetic piston — 02 = Single acting version front spring — 12 = Single acting version front spring with magnetic piston — 03 = Single acting version rear spring — 13 = Single acting version rear spring with magnetic piston — 04 = Double acting push pull version — 14 = Double acting push pull version with magnetic piston <p>Standard strokes:</p> <p>Type 1501, 1504, 1511, 1514, 1515, 1516, 1517 e 1518: for all bores from 5 to 50mm. every 5 mm.</p> <p>Type 1502, 1503, 1512 and 1513: for all bores from 5 to 10 mm.</p> <p>Type with non-rotating device:</p> <ul style="list-style-type: none"> Ø 20 and Ø 25 from 5 to 40 mm every 5 mm Ø 32 and Ø 40 from 5 to 50 mm every 5 mm Ø 50 and Ø 63 from 5 to 60 mm every 5 mm Ø 80 and Ø 100 from 5 to 80 mm every 5 mm 	
	<p>Tandem version</p>	Tandem with opposed rods	<p>1515.Ø.stroke 1.stroke 2 1515.Ø.stroke 1.stroke 2.M (magnetic)</p>
		Tandem push with common rods	<p>1516.Ø.stroke 1516.Ø.stroke.M (magnetic)</p>
		Tandem push with independent rods	<p>1517.Ø.stroke 1.stroke 2 1517.Ø.stroke 1.stroke 2.M (magnetic)</p>
		Opposed tandem with common rods	<p>1518.Ø.stroke 1.stroke 2 1518.Ø.stroke 1.stroke 2.M (magnetic)</p>
		Anti rotating double acting version	<p>1501.Ø.stroke.AR</p>
		Anti rotating double acting version magnetic	<p>1511.Ø.stroke.AR</p>

Rear female clevis		Raer male clevis		Slot fixing screws	Nipple with ISO standard thread
1500.Ø.09F	1320.Ø.09F	1500.Ø.09/1F	1320.Ø.09/1F		1500.Ø.17F
from Ø 20 to Ø 25	from Ø 32 to Ø 100	from Ø 20 to Ø 25	from Ø 32 to Ø 100	<p>1500.15F = from Ø32 1500.16F = from Ø40 to Ø63 1500.18F = from Ø80 to Ø100</p>	



Short stroke compact cylinders with special performance

(series 1500, catalogue 4, section 6)

PNEUMAX



1502.Ø.stroke

1502.8.4 (Ø 8, stroke 4 mm)

1502.12.4 (Ø 12 stroke 4 mm)

1502.12.10 (Ø12, stroke10 mm)

1502.16.4 (Ø 16, stroke 4 mm)

1502.16.8 (Ø 16, stroke 8 mm)

Bore: Ø20-25-32-40-50-63-80-100 mm

Standard strokes

Ø20 and Ø25 from 5 to 40 mm every 5 mm

Ø32 and Ø40 from 5 to 50 mm every 5 mm

Ø50 and Ø63 from 5 to 60 mm every 5 mm

Ø80 and Ø100 from 5 to 80 mm every 5 mm.



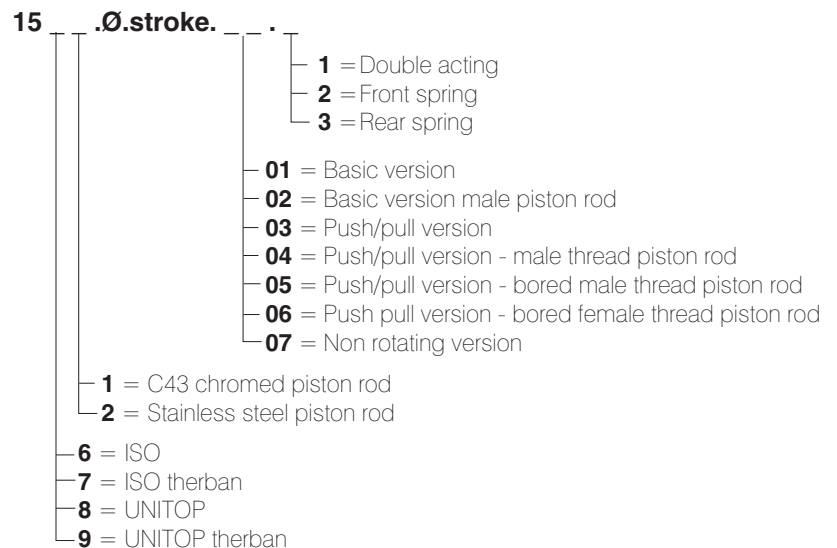
Short stroke compact cylinders "EUROPE"

(series 1500, news 28)

Basic and push/pull version



Description





	Description
<p>Tandem version</p>	<p>15 .Ø.stroke.(stroke1) .</p> <ul style="list-style-type: none"> — A = Tandem with opposed piston rods — B = Tandem push with independent piston rods — C = Tandem push with common piston rods — D = Opposed tandem with common piston rods — E = Tandem with opposed male thread piston rods — F = Tandem push with indep. male thread piston rods — G = Tandem push with common male thread piston rods <ul style="list-style-type: none"> — 1 = C43 chromed piston rod — 2 = Stainless steel piston rod <ul style="list-style-type: none"> — 6 = ISO — 7 = ISO therban — 8 = UNITOP — 9 = UNITOP therban

Standard stroke for single acting

Ø12 10mmmax.
from Ø16 to Ø100 25mm

Max. suggested strokes

Ø12 and Ø16 100mm
Ø20 and Ø25 200mm
Ø32 and Ø40 300mm
Ø50 and Ø63 400mm
Ø80 and Ø100 500mm

Longer strokes may be utilized if there is no radial loads on piston rod considering there isn't adjustable cushioning system.

Standard strokes for double acting

Ø12 and Ø16 from 5 to 40mm every 5mm
Ø20 and Ø25 from 5 to 50mm every 5mm
Ø32 ÷ Ø100 from 5 to 80mm every 5mm

Max. suggested strokes with antirotating device

from Ø12 to Ø25 40mm
from Ø32 to Ø100 80mm

Front and rear flange			Foot	
ISO	UNITOP		ISO	UNITOP
1320.Ø.03F	1580.Ø.03F	1580.Ø.03/1F	1320.Ø.05/1F	1580.Ø.05/1F
(from Ø 32 to Ø 100 - steel)	(steel)	(aluminium)	(from Ø 32 to Ø 100 - steel)	(steel)

Slot fixing screws	Centering rings	Front female clevis (from Ø 32 to Ø 100)	
		ISO	UNITOP
	1580.Ø.02F	1320.Ø.08F	1580.Ø.11F 1580.Ø.13F
	(da Ø 32 a Ø 100)		
1500.15F = from Ø32 1500.16F = from Ø40 to Ø63 1500.18F = from Ø80 to Ø100			

Rear male clevis		Rear female clevis		Sensors adapter
UNITOP		ISO	UNITOP	UNITOP
1580.Ø.09/1F	1580.Ø.09/2F	1320.Ø.09F	1580.Ø.10F	1580.Ø.12F
(from Ø 12 to Ø 25)	(from Ø 20 to Ø 25)	(from Ø 32 to Ø 100)	(aluminium)	(steel)



Rodless cylinder version







Description

1605 .Ø.stroke.

- 01.M** = Basic version
- 02.M** = Single feed cylinder left head
- 03.M** = Single feed cylinder right head
- 01.MG** = Cylinder with linear control unit (for Ø 25, Ø 32, Ø 40 and max stroke m. 3)

Max strokes m. 6

Accessories

Sensor brackets	Mounting foot brackets	Intermediate support	Oscillating hinge
1600.A	1600.Ø.01F	1600.Ø.02F	1600.Ø.03F
	from Ø 25 to Ø 32 from Ø 40 to Ø 63 	from Ø 25 to Ø 32 from Ø 40 to Ø 63 	from Ø 25 to Ø 40 from Ø 50 to Ø 63 



Cable cylinders version









1601.Ø.stroke

1601.Ø.stroke.M (magnetic)

Bore: Ø 16 and Ø 25



	To be used on	Description	Ordering code		
Sensors with connector (REED type) 	cylinders and microcylinders	2 m. cable (contact REED)	1500.D.C. 1500.U 1500.U/1	magnetic sensor with LED D.C. - N.O. - 2 m. cable magnetic sensor with LED universal - N.O. - 2 m. cable magnetic sensor without LED universal - N.O. - 2 m. cable	
		connector	RS.UA RS.UA/1 RS.UC	magnetic sensor with LED universal N.O. magnetic sensor without LED universal N.O. magnetic sensor with LED universal N.C.	
			RS.UAC1 RS.UAC1/1 RS.UCC1	magnetic sens. with LED universal NO - 2,5 m. cable connector magnetic sens. without LED universal NO - 2,5 m. cable conn. magnetic sens. with LED universal N.C. - 2,5 m. cable connector	
	rodless cylinders	2 m. cable (contact REED)	1600.D.C. 1600.U 1600.U/1	magnetic sensor with LED DC - N.O. - 2 m. cable magnetic sensor universal with LED universal - N.O. - 2 m. cable magnetic sensor without LED universal - N.O. - 2 m. cable	
		connector	SRS.UA SRS.UA/1 SRS.UC SRS.UAC1 SRS.UAC1/1 SRS.UCC1	magnetic sensor with LED universal N.O. magnetic sensor without LED universal N.O. magnetic sensor with LED universal N.C. magnetic sensor with LED universal N.O. - 2,5 m. cable connector mag. sens. without LED universal N.O. - 2,5 m. cable connector magnetic sensor with LED universal N.C. - 2,5 m. cable connector	
			C1 C2 C3	connector with 2,5 m. cable connector connector with 5 m. cable connector connector with 10 m. cable connector	
	"EUROPE" compact cylinders		1580.U MRS.U	magnetic sensor with LED N.O. - 2,5 m. cable mag. sensor with LED N.O. M8 connector (300mm cable)	
			MC1 MC2 MCH1 MCH2	M8 in line connector with 2,5 m. cable (2 wires) M8 in line connector with 5 m. cable (2 wires) M8 in line connector with 2,5 m. cable (3 wires) M8 in line connector with 5 m. cable (3 wires)	
Sensor HALL effect 	cylinders and microcylinders	cable mt. 3	1500.HAP 1500.HAN 1500.HCP 1500.HCN	magnetic sensor with LED Hall effect PNP - N.O. - 3m. cable magnetic sensor with LED Hall effect NPN - N.O. - 3m. cable magnetic sensor with LED Hall effect PNP - N.C. - 3m. cable magnetic sensor with LED Hall effect NPN - N.C. - 3m. cable	
		connector	HS.PA HS.NA HS.PAC1 HS.NAC1	magnetic sensor with LED Hall effect PNP - N.O. magnetic sensor with LED Hall effect NPN - N.O. mag. sensor with LED Hall effect PNP - NO + 2,5 m. cable con. mag. sensor with LED Hall effect NPN - NO + 2,5 m. cable con.	
			CH1 CH2	connector with 2,5 m. cable (3 wires) connector with 2,5 m. cable (3 wires)	
		rodless cylinders	cable mt. 3	1600.HAP 1600.HAN 1600.HCP 1600.HCN	magnetic sensor with LED Hall effect PNP - N.O. - 3m. cable magnetic sensor with LED Hall effect NPN - N.O. - 3m. cable magnetic sensor with LED Hall effect PNP - N.C. - 3m. cable magnetic sensor with LED Hall effect NPN - N.C. - 3m. cable
			connector	SHS.PA SHS.NA SHS.PAC1 SHS.NAC1	magnetic sensor with LED Hall effect PNP - N.O. magnetic sensor with LED Hall effect NPN - N.O. mag. sensor with LED Hall effect PNP - N.O. + 2,5 m. cable con. mag. sensor with LED Hall effect NPN - N.O. + 2,5 m. cable con.
				CH1 CH2	connector with 2,5 m. cable (3 wires) connector with 5 m. cable (3 wires)
	"EUROPE" compact cylinders		1580.HAP MHS.P	magnetic sensor with LED Hall effect PNP - N.O. - 2,5 m. cable mag. sensor with LED Hall effect PNP - N.O. M8 conn. (300mm cable)	
			MC1 MC2 MCH1 MCH2	M8 in line connector with 2,5 m. cable (2 wires) M8 in line connector with 5 m. cable (2 wires) M8 in line connector with 2,5 m. cable (3 wires) M8 in line connector with 5 m. cable (3 wires)	