

## General

Profiled tube has two "T" slots on the three sides hosting sensors 1580.\_, MRS.\_, MHS.\_ without adaptors. "K" and "PK" version with reduced cushion length while maintaining higher speed also during the cushioning phase, with standard PUR seals.

## Construction characteristics

End plates	Series 1386 - 1388: High resistant thermoplastic material	Series 1396 - 1398: Die-casting aluminium
Rod	C43 chromed steel or stainless steel	
Barrel	anodised aluminium alloy	
Rod-guide bushing	self-lubricating sintered bronze	
Piston	acetal resin, aluminium on request	
Seal	Standard: NBR Oil resistant rubber, PUR Piston rod seals (PUR seals available upon request)	
Cushion adjusting screws	Brass	

## Technical characteristics

Fluid	filtered and preferably lubricated air or not (If lubricated the lubrication must be continuous)
Max. pressure	10 bar
Operating temperature	-5°C - +70°C with standard seals -30°C - +80°C with PUR seals
Bore	Ø <u>32</u> - <u>40</u> - <u>50</u> - <u>63</u> - <u>80</u> - <u>100</u>
Cushioning length	mm 27 - 31 - 31 - 37 - 40 - 44
Cushioning length "K" and "PK" version	mm 20 - 20 - 22 - 22 - 32 - 32

Please follow the suggestions below to ensure a long life for these cylinders:

- use clean and lubricated air
- correct alignment during assembly with regard to the applied load so as to avoid radial components or bending the rod;
- avoid high speeds together with long strokes and heavy loads: this would produce kinetic energy which the cylinder cannot absorb, especially if used as a limit stop (in this case use mechanical stop device and aluminium piston);
- evaluate the environmental characteristics of cylinder used (high temperature, hard atmosphere, dust, humidity etc.)

**Please note: air must be dried for applications with lower temperature.**

Use hydraulic oils H class (ISO VG32) for correct continued lubrication.

Our Technical Department will be glad to help.

### Standard strokes (for all diameters)

from 0 to 150, every 25 mm
from 150 to 500, every 50 mm
from 500 to 1000, every 100

### Stroke tolerance (ISO 15552)

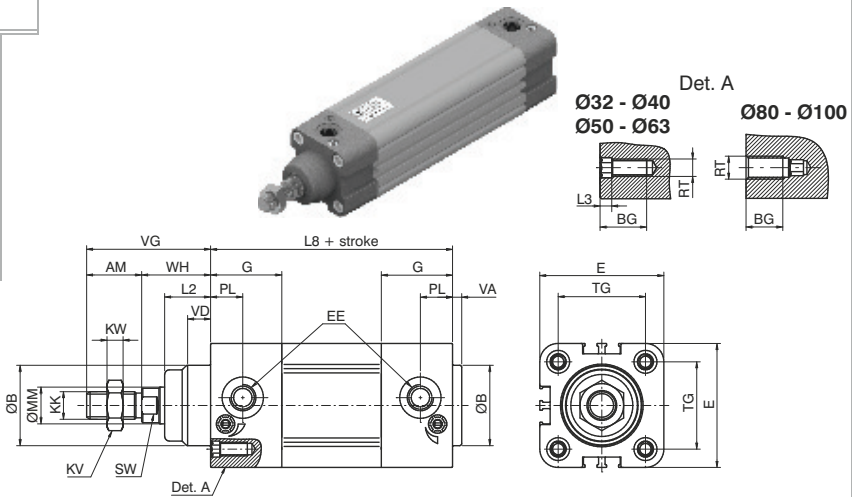
Bore	Stroke	Tolerance
32 - 40 - 50	up to 500	+2 0
	over 500 up to 1000	+3.2 0
63 - 80 - 100	up to 500	+2.5 0
	over 500 up to 1000	+4 0

**Basic version "01"**

Ordering code

**TECHNOPOLYMER COVERS**  
 1386.Ø.stroke.01 Magnetic chromed rod  
 1387.Ø.stroke.01 Magnetic stainless steel rod  
 1388.Ø.stroke.01 Non magnetic chromed rod

**ALUMINIUM COVERS**  
 1396.Ø.stroke.01 Magnetic chromed rod  
 1397.Ø.stroke.01 Magnetic stainless steel rod  
 1398.Ø.stroke.01 Non magnetic chromed rod

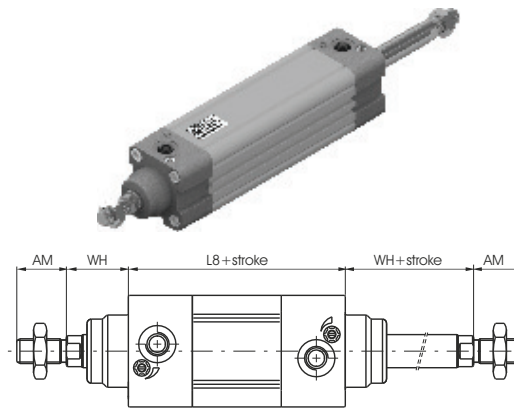


**Push/pull version "02"**

Ordering code

**TECHNOPOLYMER COVERS**  
 1386.Ø.stroke.02 Magnetic chromed rod  
 1387.Ø.stroke.02 Magnetic stainless steel rod  
 1388.Ø.stroke.02 Non magnetic chromed rod

**ALUMINIUM COVERS**  
 1396.Ø.stroke.02 Magnetic chromed rod  
 1397.Ø.stroke.02 Magnetic stainless steel rod  
 1398.Ø.stroke.02 Non magnetic chromed rod

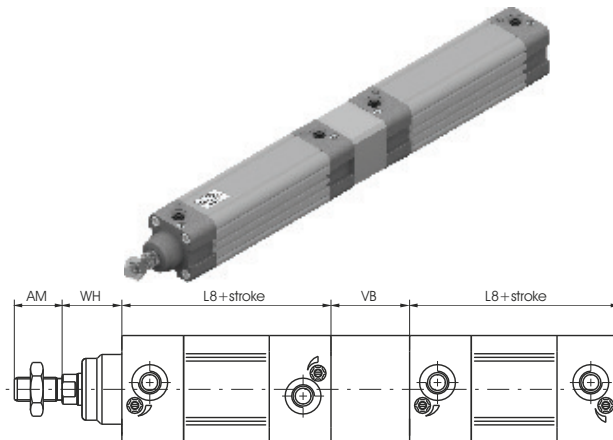


**Tandem push with common rods "G"**

Ordering code

**TECHNOPOLYMER COVERS**  
 1386.Ø.stroke.G Magnetic chromed rod  
 1387.Ø.stroke.G Magnetic stainless steel rod  
 1388.Ø.stroke.G Non magnetic chromed rod

**ALUMINIUM COVERS**  
 1396.Ø.stroke.G Magnetic chromed rod  
 1397.Ø.stroke.G Magnetic stainless steel rod  
 1398.Ø.stroke.G Non magnetic chromed rod

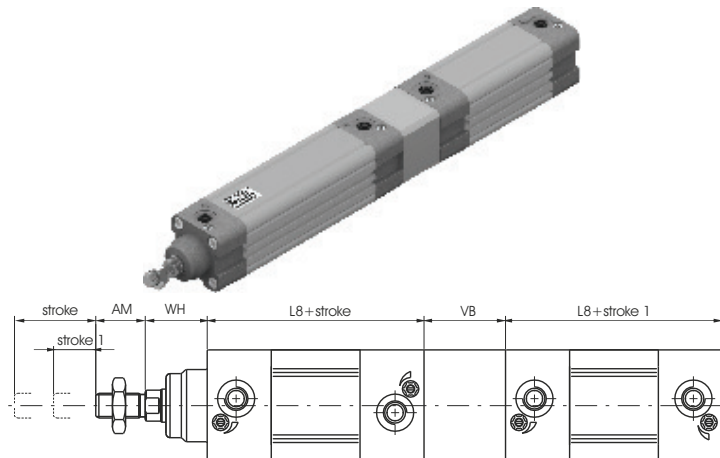


**Tandem push with independent rods "F"**

Ordering code

**TECHNOPOLYMER COVERS**  
 1386.Ø.stroke.stroke1.F Magnetic chromed rod  
 1387.Ø.stroke.stroke1.F Magnetic stainless steel rod  
 1388.Ø.stroke.stroke1.F Non magnetic chromed rod

**ALUMINIUM COVERS**  
 1396.Ø.stroke.stroke1.F Magnetic chromed rod  
 1397.Ø.stroke.stroke1.F Magnetic stainless steel rod  
 1398.Ø.stroke.stroke1.F Non magnetic chromed rod



**Opposed tandem with common rod "D"**

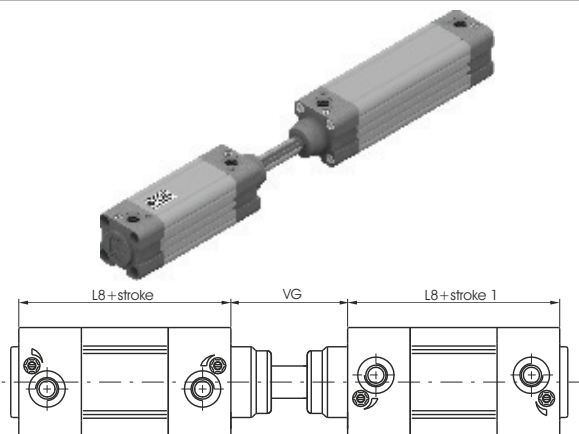
Ordering code

**TECHNOPOLYMER COVERS**

**1386.Ø.stroke.stroke1.D** Magnetic chromed rod  
**1387.Ø.stroke.stroke1.D** Magnetic stainless steel rod  
**1388.Ø.stroke.stroke1.D** Non magnetic chromed rod

**ALUMINIUM COVERS**

**1396.Ø.stroke.stroke1.D** Magnetic chromed rod  
**1397.Ø.stroke.stroke1.D** Magnetic stainless steel rod  
**1398.Ø.stroke.stroke1.D** Non magnetic chromed rod


**Tandem with opposed rods "E"**

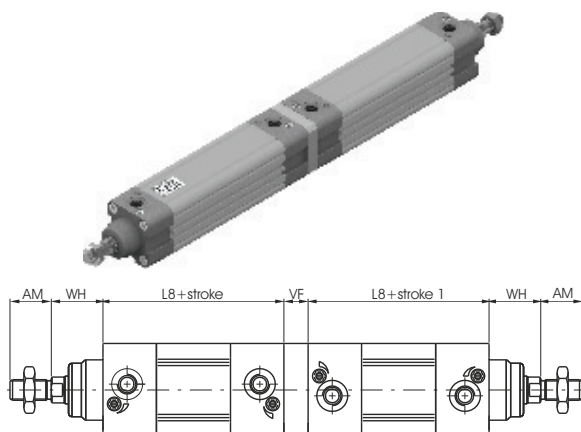
Ordering code

**TECHNOPOLYMER COVERS**

**1386.Ø.stroke.stroke1.E** Magnetic chromed rod  
**1387.Ø.stroke.stroke1.E** Magnetic stainless steel rod  
**1388.Ø.stroke.stroke1.E** Non magnetic chromed rod

**ALUMINIUM COVERS**

**1396.Ø.stroke.stroke1.E** Magnetic chromed rod  
**1397.Ø.stroke.stroke1.E** Magnetic stainless steel rod  
**1398.Ø.stroke.stroke1.E** Non magnetic chromed rod


**Variants**

Ordering code

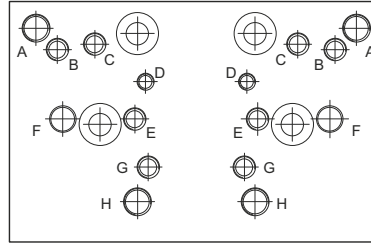
**13\_ \_Ø.stroke.\_ \_P** = Version with PUR seals  
**13\_ \_Ø.stroke.\_ \_K** = Version with aluminium piston  
**13\_ \_Ø.stroke.\_ \_PK** = Version with PUR seals and aluminium piston

**Table of dimensions**

Bore			32	40	50	63	80	100
AM			22	24	32	32	40	40
B (d 11)			30	35	40	45	45	55
BG			16	16	18	18	16	16
E			46	54	65	77,5	95,5	115,5
EE			G 1/8"	G 1/4"	G 1/4"	G 3/8"	G 3/8"	G 1/2"
G			29	31	33	36	40	44
KK			M10X1,25	M12X1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5
KV			17	19	24	24	30	30
KW			6	7	8	8	9	9
L2			16	20	25	25	32	35
L3			4	4	5	5	/	/
L8			94	105	106	121	128	138
MM			12	16	20	20	25	25
PL			13	14	14	16	16	18
RT			M6	M6	M8	M8	M10	M10
SW			10	13	17	17	22	22
TG			32,5	38	46,5	56,5	72	89
VA			4	4	4	4	4	4
VB			33	41	51	51	65	71
VD			8	10	12	12	15	16
VF			12	12	16	16	20	20
VG			48	54	69	69	86	91
WH			26	30	37	37	46	51
Weight	Aluminium covers	stroke 0	550	690	1200	1590	2500	3670
gr.		every 10 mm	29	40	57	66	96	112
Weight	Technopolymer covers	stroke 0	470	590	1020	1320	2090	3010
gr.		every 10 mm	29	40	57	66	96	112

**Distributor supports**

This accessory permits to mount a valve or an electrovalve on a side of the cylinder. The plate can be fitted on the cylinder profiled barrel, and, on it, can be mounted either a threaded distributor or a base on which can be mounted an ISO distributor. Once installed the connections must be done with fittings and pipes. All of the threaded holes on the support plate are dedicated to different valves series as per attached drawing.

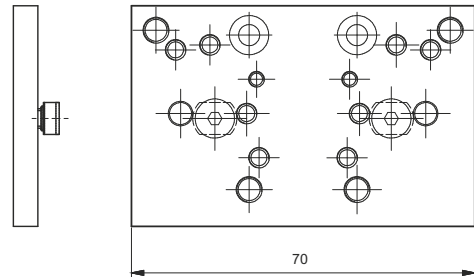
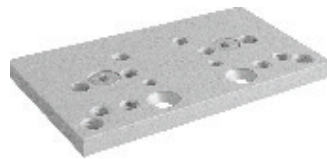


Fixing holes for valves series:

- A = 414/2
- B = 824
- C = 828, T488, 488, 484
- D = 2400
- E = 2600
- G = 858/2
- H = T424

Ordering code

**1386.15**

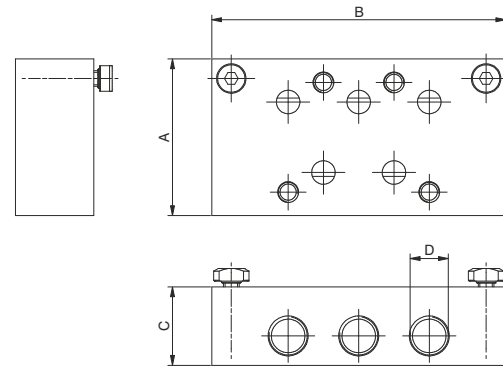


**Attention:** do not use ISO distributor for base mounting

**Bases for ISO distributors**

Ordering code

<b>1320.23</b>	bases for ISO 1 electro distributor
<b>1320.24</b>	bases for ISO 2 electro distributor



	Dimensions			
	A	B	C	D
bases for ISO 1 electro distributor	40	75	15	G 1/8"
bases for ISO 2 electro distributor	50	95	20	G 1/4"