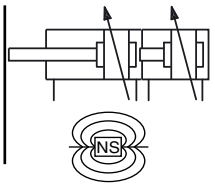
JOUCOMATIC

PROFILED/TIE RODS CYLINDERS

Ø 32 to 200 mm - double acting
conforming to ISO-AFNOR-DIN standards
with three positions, rods not connected

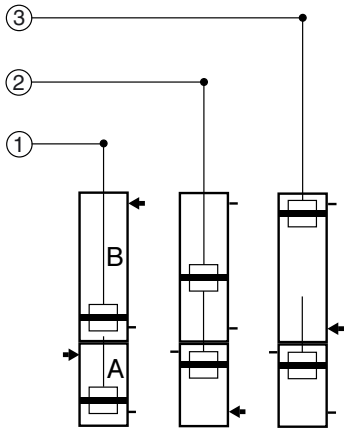


Series
450-453
Type
PES

B

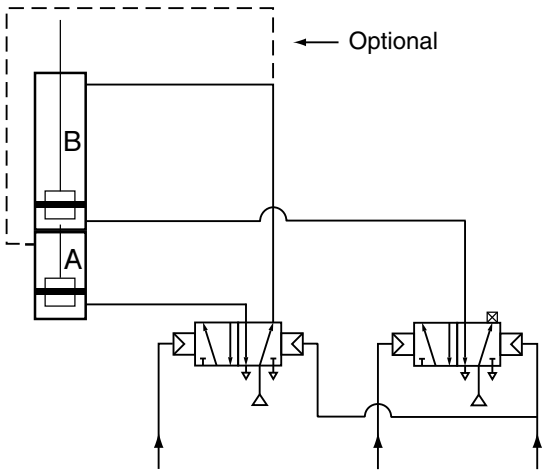
FEATURES

- *The three-position cylinder is a monolithic assembly consisting of two PES valve bodies in tandem, generally with different strokes, whose piston rods are not connected together*



The main applications of three-position cylinders are for pressing and raising loads with two different positions. The following recommendations are made concerning use:

- An opposing force is necessary during extension
- To reach the second position with sufficient accuracy, extension of the rod of cylinder “A” must not be too fast.
- The operating cycle is necessarily as follows: 1 ⟶ 2 ⟶ 3 then direct return to 1. See pneumatic control diagram below.



Position 2
extension of cylinder “A”

Position 3
extension of cylinder “B”

Position 1
retraction of cylinders “A” and “B”

GENERAL

Detection	**Equipped for magnetic position detectors**
Fluid	Air or neutral gas, filtered, lubricated or not
Operature pressure	10 bar max.
Ambiant temperature	-20°C to +70°C
Cushioning	Pneumatic, adjustable at bot ends by captive screws
Standards	ISO 15552 AFNOR NF ISO 15552 DIN ISO 15552

Maximum stroke

Ø (mm)	stroke A + B	
	cylinder profiled	**cylinder with tie rods**
32	320	320
40	500	500
50-63	600	600
80-100	800	800
125-200	-	1000

Control: see below

■ Determination of stroke of cylinder “A”: Distance between Positions 1 and 2 (in mm)
■ Determination of stroke of cylinder “B”: Distance between Positions 1 and 3 (in mm)

SPECIFICATIONS

To order, please specify:

■ CYLINDER:

- Cylinder description: PES cylinder **with profiled barrel or tie rods**, **3 positions**, piston rods **not** connected together
- Cylinder **A** description: Cylinder “A”, Ø, stroke, cushioned, steel or aluminium barrel for cylinder with tie rods cylinder equipped or not equipped for magnetic position detectors (1)
- Cylinder **B** description: Cylinder “B”, Ø, stroke, cushioned, steel or aluminium barrel for cylinder with tie rods cylinder equipped or not equipped for magnetic position detectors (1)

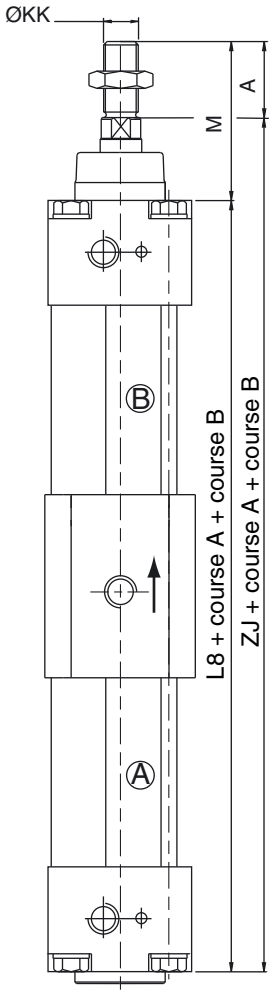
(1) **The magnetic position detectors are ordered separately:**
- "T" model (see page P291), reed switch or magneto-resistive type
In the case of use of a BIM magnetic detector on PES series 450 **Ø 32**, it is necessary to add the option code = **995125**

OPTIONS

- Other strokes on request
- Piston rod in 316L stainless steel, catalogue number: **995002** - in 303 stainless steel, catalogue number: **995202**
- Overlength piston rod in hard chrome steel, cat. n°: **995003** - in 316L stainless steel, cat. n°: **995004** - in 303 stainless steel, cat. n°: **995204**

MOUNTINGS: Fastener codes and quantities (see standard equipment - page P229-18)

DIMENSIONS (mm)



N.B.: The supply ports to the intermediate block are offset x 180°.

Ø (mm)	A	ØKK	L8	M	ZJ
32	22	M10x1,25	180	48	206
40	24	M12x1,25	198,5	54	228,5
50	32	M16x1,5	205	69	242
63	32	M16x1,5	233	69	270
80	40	M20x1,5	251,5	86	297,5
100	40	M20x1,5	243	91	294
125	54	M27x2	278	119	343
160	72	M36x2	303	152	383
200	72	M36x2	303	167	398

Cylinder with **profiled barrel** Ø 32 to 100 mm

Cylinder with **tie rods** Ø 32 to 200 mm