

R1 41 01 05 Technical Directive

Pneumatics directive for suppliers, erection companies, managers and users
Part 5: Selection cylinders and air motors

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<u>Information on</u>

Subject of document Elffers tel. +31 (0)251-4 97927 Standardisation Standardisation office tel. +31 (0)251-4 97693

Contents:		R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	



5.1.	DOUBLE ACTING CYLINDERS PN 10	25
		R1 41 01 05 Programatics directive for suppliers, erection
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 5: Selection cylinders and air motors
	corus	
	corus	

5.1.1.	Scope and application		R1 41 01 05
			Pneumatics directive for suppliers, erection companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	

5.1.2.	Manufacturers	
J.1.2.		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
		orus
	_	orus

510	Norgra-		
5.1.2.art.a.	Norgren		R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
		corus	
		l	

510 (1 5)	
5.1.2.art.b. Parker	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
	,
corus	
corus	

5.1.3. Construction	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Pneumatics directive for suppliers, erection companies, managers and users
	companies, managers and users
	Part 5: Selection cylinders and air motors
	1 420 CT S CTO 12011 CY 1111 W 112 W
	corus
	corus

5.1.3.art.a.	Basic dimensions	
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
	corus	
	corus	

5.1.3.art.b.	Cap detachable clevis MP.2	158
	т	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Ture of solderion by infacts and an inforcing
	coru	is

5.1.3.art.c.	Cap detachable eye MP4	
3.1.3.art.c.	cap demonable eye ivii 4	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		1 art 3. Selection cylinders and an inotors
	_	
	corus	
	corus	

5.1.3.art.d. Trunnion MT4	200
3.13.arca. Humbon W114	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
corus	
corus	

5.1.3.art.e.	End angles mounting MS.1	
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
	_	
	corus	

5.1.3.art.f. Rod eye mounting	244
5.1.5.arc.i. Rod cyc mounting	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Part 5: Selection cylinders and air motors
	orus
C	oi us

5.2.	AIR MOTORS PN 10	265
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
		orus
	C	orus

5.2.1.	Scope and application	266
J.2.1.	2-2-p-c and approximation	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
	cor	7116
	cor	us

5.2.2.	Manufactures	271
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
		orus (
	CO	orus

		Γ	
5.2.3.	Execution		R1 41 01 05 Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
		corus	
		corus	

	_	
5.3.	REFERENCES	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
	coru	
	coru	S

5.4.	EXPLANATION	R1 41 01 05 Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
	corus	
I		

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



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	Part 5: Selection cylinders and air motors
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	D 11 // 11 D3740	
5.1.	Double acting cylinders PN 10	R1 41 01 05 Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
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	corus	

5.1.1. Scope and application	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus

Double acting cylinders with tie rods and	piston diameters from 32 up to 320 mm. The R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

here specified cylinders fulfil both I	SO 6431 and VDMA 24562 standards
nere specifica cymiaers fumi both f	SO 6431 and VDMA 24562 standards. R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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The evilinders are suitable for files 1	rossed oir both lubricated armore labelinested
ine cylinders are suitable for filtered exp	Pressed air, both lubricated or non lubricated. R1 41 01 05 Programmatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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	1
Cushioning at both ends.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Following detachable mountings are prefe	rred: R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	



- Cap detachable clevis	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	

(ISO MD2 VDMA (2 2)	
(ISO MP2 en VDMA part 2 nr.2)	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	1 420 C 1 2 42 C 1 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

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Cap detachable eye	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	5

Т	
(ISO MP4 en VDMA part 2 nr. 3)	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



– Trunnion	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	

(ISO MT4 on VDMA nort 2 nr 7)	
(ISO MT4 en VDMA part 2 nr.7)	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
33. 43	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

 End angles mounting 	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

Т	
(ISO MS1 en VDMA part 2 nr.6)	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



 Rod eye with ball bearing 	
- Rod eye with ball bearing	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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(1 772 2425	
(according ISO 8139)	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

For the diameter selection of the cylinder	s to be calculated with a loss of 8 to 10% due to R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Fart 3. Selection cylinders and an inotors
corus	

friction.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Part 5: Selection cylinders and air motors
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Stroke according list; only if the a	ssembly of the cylinder is impossible, intermediate R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
CO	orus -

values may be applied.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air meters
	Part 5: Selection cylinders and air motors
corus	



Basic assembly of the cylinder including nut on piston rod.		
	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors	
corus		

For magnetcylinders too, the above ment	ioned specification is valid. Dimensions are R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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identical.	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

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Only deviations are:	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	

 ring shape magnet in piston 	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

 tube is aluminium or brass. 	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

1	
Note.: the dimensions do not change.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5.1.2.	Manufacturers	
3.1.2.	Manajaciarers	R1 41 01 05 Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
	C	
	cor	us

5.1.2.art.a. Norgren		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		1 art 3. Selection cylinders and all motors
	corus	

Note: up to 100 mm, the cylinder is stand	dard equipped with a magnet in the piston. R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Selection according schemes here under:	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Cylinder for ap	plications up to 10 bar R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Turt 3. Selection by infacts and an inotors
corus	

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

R A / 8 1) /	M^2) / ³) + ⁴) ⁵) R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
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1) Dietem Jienesten in	
1) Piston diameter in mm	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Tares. Selection cylinders and an inotors
corus	

32	8032	125	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		Corus	

40	8040	160	8160 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
		Corus	

<u> </u>			
50	8050	200	8200 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
		corus	
		Corus	

63	8063	250	8250 B1 41 01 05
		200	R1 41 01 05
Ì			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
		corus	
		corus	

80	8080	320	8320 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
		corus	

100	8100	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

2) M is standard up to 100 mm.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

For larger diameters M is optional for n	nagnet in piston. R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



3) Stroke lengths in mm	
3) Stroke lengths in film	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
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25 - 50 - 80 - 100 - 125 - 160 - 200 - 2	250 - 320 - 400 - 500 - 630 - 800 - 1000 - 1250 - R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

1600 - 2000 - 2500 - 3150 - 4000.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



4) Addition for mounting accessories:	
i, realization for mounting accessories.	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

D=	cap detachable clevis	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

-	1 . 1 11	
R=	cap detachable eye	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		Part 5: Selection cylinders and air motors
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H= trunnion	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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Without separate information	, the trunnion will be fixed in the middle R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

position.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

If not possible, consult the engineer involved R1 41 01 05				
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors			
coru	s			

	1 1	
C=	end angles mounting	R1 41 01 05 Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
	_	
	corus	

UF=	rod eye with ball	bearing fixe	ed on rod	D1 41 01 05
		-		R1 41 01 05 cs directive for suppliers, erection
			com	panies, managers and users
			Part 5: S	election cylinders and air motors
		corus		



5) For magnet cylinders to be added QM	1/32/2 for the reedcontact(s). R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	1 art 3. Selection cylinders and an inotors
corus	

This switch is equipped with LED and	2 metres of connecting cable.
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Tart 3. Selection cylinders and an inotors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



5.1.2.art.b. Parker		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
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	corus	

Ordering code:	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

\dots^{1}) - 2110A ²) - \dots^{3}) + \dots^{4}) ⁵)	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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1) Cylinder diameter 32 - 40 - 50 - 63 - 80	- 100 - 125 - 160 - 200
1) Cymraet diameter 32 40 30 03 00	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

2) Basic cylinder = 2110A, magnet cylin	nder = 2110B
	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

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3) Stroke lengths in mm	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

25 - 50 - 80 - 100 - 125 - 160 - 200 - 2	50 - 320 - 400 - 500 - 630 - 800 - 1000 - 1250 - R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
	·
corus	

1600 - 2000 - 2500 - 3150 - 4000.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

4) Addition for mounting accessories:	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
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2800 B =	cap detachable clevis	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

2800 C =	cap detachable eye	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

	
2110 G = trunnion	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

2110H =	trunnion plus magnet	piston R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
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	corus	

Trunnion will be fixed in the middle p	osition. If impossible consult the engineer R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	1 art 3. Selection cymiders and an motors
corus	

involved.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

2800D	end angles mountin	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

Rod eye with ball bearing mounted on	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

	Piston diameter	Ball	D1 41 01 05
		·	Propagation directive for symplicity execution
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
	C	orus	
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32	4078-	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
	corus	
	corus	

40	4078-	12
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		companies, managers and users Part 5: Selection cylinders and air motors
		i dit 3. Selection cymiders and an inotors
	corus	
	corus	
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50, 63	4078-	16
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Part 5: Selection cylinders and air motors
	corus	
	COTUC	
	corus	

	80, 100	4078-2	R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			companies, managers and users Part 5: Selection cylinders and air motors
		corus	
		corus	
<u> </u>		•	

125	4078-2	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Part 5: Selection cylinders and air motors
	corus	
	corus	
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160, 200	4078-2	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5) Add 4601 A for mod 4 (4)	
5) Add 4621A for reedcontact(s).	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	

Switch equipped with LED and 3 m. c	onnecting cable.
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



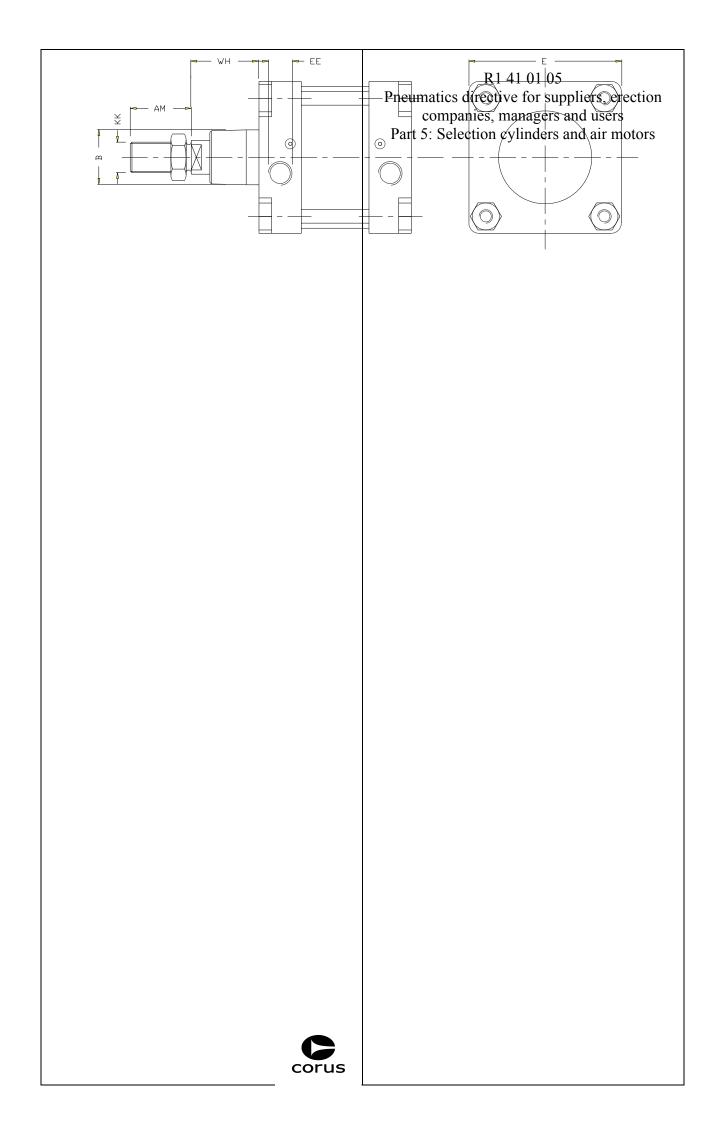
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5.1.3.	Construction	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

5.1.3.art.a. Basic dimensions	R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
cor	us

Figure 5.1	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



Scheme 5.1	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Dimensions in mm (unless otherwise stated)	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
	Ture 5. Selection cylinders and an inotors
corus	
Corus	
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

				<u> </u>					
	Cylinder diameter	øΒ	AM	WH	E max _{R1}	4F61P65	KK		
<u> </u>				Pneum	atics directi	ive for suppl	iers, erection		
				companies, managers and users Part 5: Selection cylinders and air motor					
				Part 3	Selection	cynnuers and	u air motors		
			corus						
			JJ. 4J						

32	30	22	26 50 G 1/8" M10 x 1,25 R1 41 01 05						
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors						
	co	brus							

				1
	40	35	24	30 58 G 1/4" M12 x 1,25 R1 41 01 05
				Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				Part 5: Selection cylinders and air motors
			corus	
			corus	

50	40	32	37 70 G 1/4" M16 x 1,5 R1 41 01 05
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Co	D orus	

					1				
63	45 3	2 37	85	G 3/8" R1 41 01 05	M16 x 1,5				
		Pneui	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors						
		Part							
	coru								
	coru	ıs							

80	45	40	46 105 G 3/8" M20 x 1,5 R1 41 01 05						
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors						
		corus							

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100	55 40	51 130 G 1/2" M20 x 1,5 R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Tart 5. Selection cylinders and an inotors
	corus	
	Corus	

125	60	54	65 157 G 1/2" M27 x 2 R1 41 01 05
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		D orus	

ì			· .	
	160	65	72	80 195 G 3/4" M36 x 2 R1 41 01 05
				Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				Ture 5. Serection by infacts and an information
			_	
			corus	
			corus	

200	75	72	95 238 G 3/4" M36 x 2 R1 41 01 05
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	C	C orus	

							1
250	90	84 105	5	290 R	G 1 1 41 01 (" 05	M42 x 2
		Pne	eumatic	s direct	tive for s	supplie	rs, erection
		, n	com	panies,	manage	rs and	users air motors
		Pa	irt 5: Se	election	cylinde	rs and	air motors
	cor						
	COL	us					

320	110	96	120 353 G 1 " M42 x 2 R1 41 01 05
			R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
	co	rus	

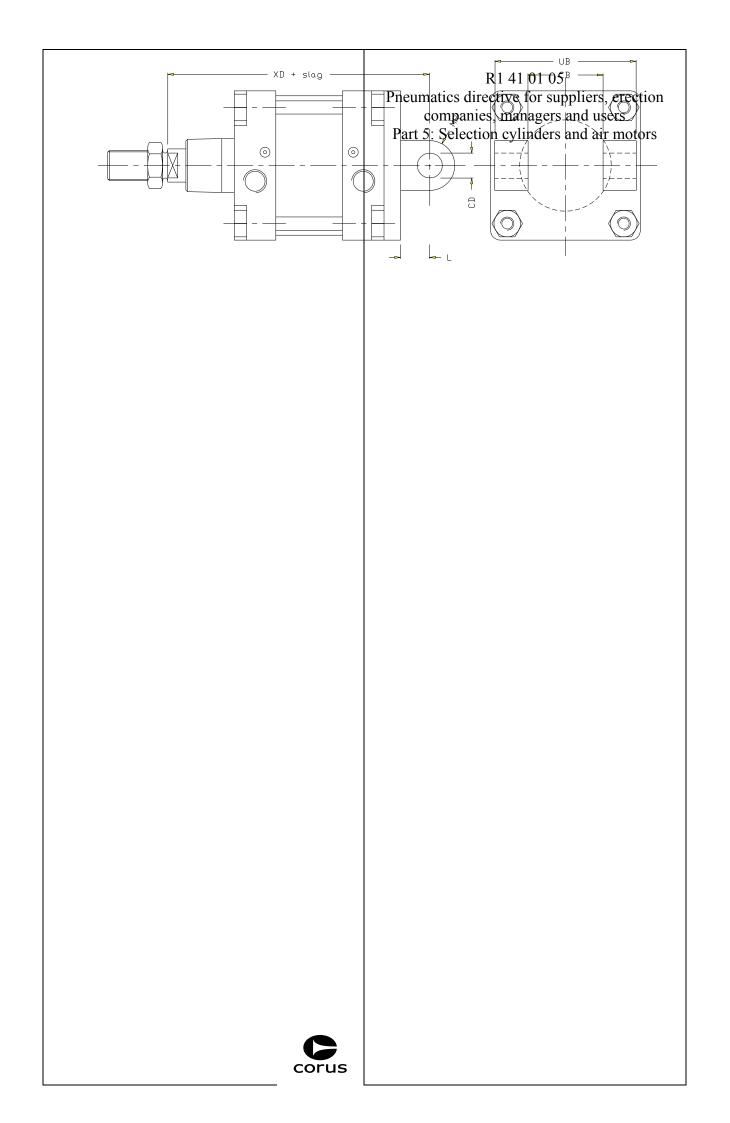


	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

.1.3.art.b.	Cap detachable clevis MI	P.2	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
			companies, managers and users Part 5: Selection cylinders and air motors
	C	corus	

D: 50	
Figure 5.2	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
co	rus





,	
Scheme 5.2	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Dimangiang in mm	
Dimensions in mm	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
Corus	



Piston diameter	XD	L min.	CD H9	CB H14 _{R1}	ДЪНД4	MR max.			
<u> </u>				natics directi	ve for suppl	liers, erection			
			companies, managers and users						
			Part 5: Selection cylinders and air motors						
		corus							
		corus							

32	142	12	10	26	45 R1 41 01 05		11
	· 1		Pneu	matics dire	R1 41 01 05 ctive for sup s, managers a n cylinders a	pliers, ero and users and air mo	ection
	C	C orus					

	40	160	15	12	28	52		13
					matics dir	52 R1 41 01 (ective for s)5 uppliers	
				-	companie	es, manager on cylinder	s and us	ers
				Part	5: Selecti	on cylinder	s and air	motors
			_					
İ			corus					
			corus					

50	170	1.5	12	1 22	1 60		12	
50	170	15		32	R1 41 01 0	5 	13	
			Pne	amatics dii compani	rective for si es, manager	uppners.	ers erection	
			companies, managers and users Part 5: Selection cylinders and air motors					
		corus						

1	63	190	20	16	40	70		17
<u> </u>	03	170	20			70 R1 41 01 0 ective for s)5 uppliers	
				Tillean	companie	es, manager on cylinder	s and us	ers
				Part	5: Selecti	on cylinder	s and air	motors
			corus					
			COLUS					

							•	1	
L	80	210	20	16	50	90 R1 41 01 0:	5	17	
				Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors					
			corus						

 100	230	25	20	60	l 110		21
 100	230	23		natios dir	110 R1 41 01 0)5 uppliers	
			Pileui	companie	ective for sees, manager	s and use	ers
			Part	5: Selecti	es, manager on cylinder	s and air	motors
		corus					
		201 43					

Ţ				1
	125	275	30	25 70 130 26
	125	275	30	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
			corus	

			,
160	315	35	30 90 170 31
160	315	35	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		Corus	

20	0	335	35	30	90	170 R1 41 01 0	_	31
					ımatics dir companie	ective for si es, manager on cylinder	uppliers, s and use	ers
		C	corus					

İ	250	275	1 45 1	40		1 200		41
	250	375	45	40	110	R1 41 01 ()5	41
				Pneı	matics dir	ective for s	uppliers,	erection
				Par	t 5: Selecti	es, manager on cylinder	s and air	motors
			corus					
			corus					

320	420 5	0	50	120	220 R1 41 01 0	5	46
			Pnet Par	umatics dir companion t 5: Selecti	rective for si es, manager on cylinder	uppliers,	erection ers motors
	_						
	co	rus					

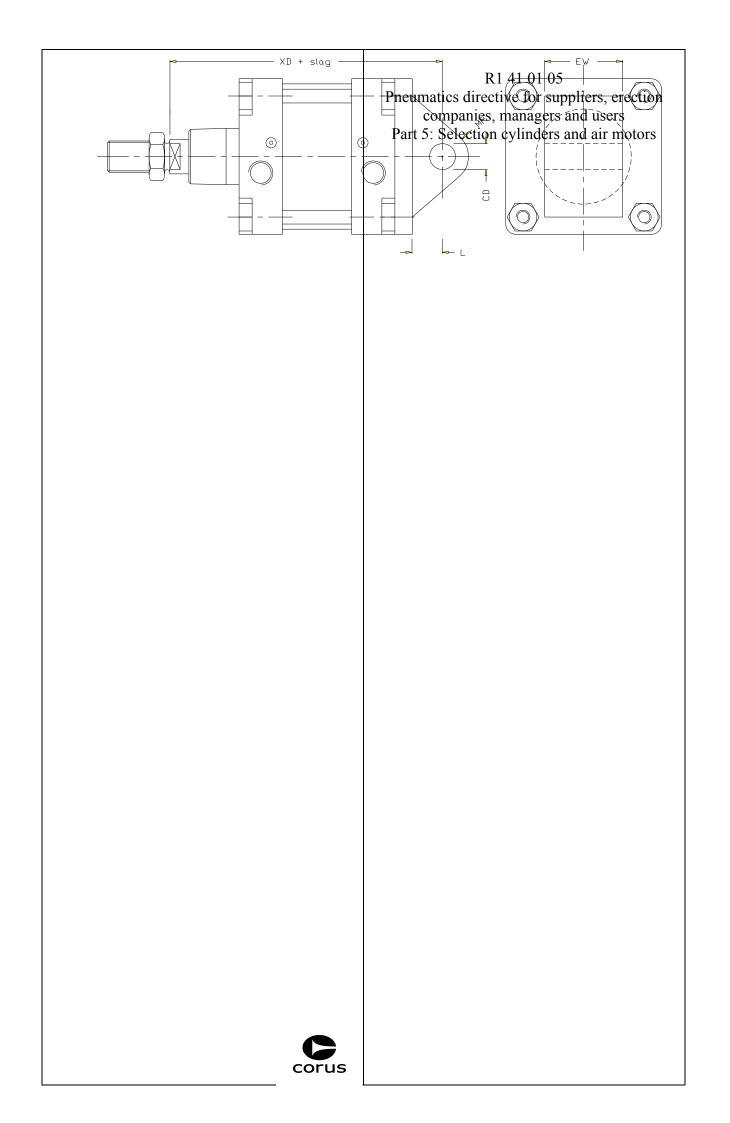
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



5.1.3.art.c. Cap detachable eye MP4	
	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

Figure 5.3	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
co	rus

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



Scheme 5.3	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Dimensions in mm	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

<u> </u>						
Piston diameter	XD	MR	max.	EW -td. R		CD H9
			Pne	umatics direct	ive for suppl	iers, erection
			Dat	companies, it 5: Selection	managers and	d users
			1 ai	t 3. Selection	Cyllliders all	a an motors
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	cort	ıs				

32	142	1:	1	26	R1 41 0	12	10
			Pneu	ımatics dir	ective for	supplie	rs, erection
			Par	companie	es, manag	gers and	users air motors
			ı uı	i 3. Beleen	on cynne	icis and	an motors
	cor						
	cor	us					

	1 1		1		Ī		í	
40	160	13	· ·	28	R1 41	0105		12
			Pneu	ımatics dir	ective f	or supp	liers, e	rection
			Dar	companie t 5: Selecti	es, mana	agers ar iders an	id users	S
			1 ai	i J. Sciccii	on Cym	iucis an	iu aii ii	101015
		<u> </u>						
	coru	' IS						

<u> </u>	50	170		13		32	R 41	15 01 05		12	
					Pneun	natics dir	rective	for supp	oliers,	erection	
					(compani	es, mai	nagers a	nd use	rs	
					Part :	5: Selecti	ion cyl	inders a	nd air i	motors	
			corus								

	63	190	17 40 20 16 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Part 5: Selection cylinders and air motors
		corus	
		Corus	

				1							
	80	210		17		50	R 1 41	20 01 05		16	
					Pneum	atics dir	ective	for supp	pliers,	erection	1
					C	compani	es, mai	nagers a	ınd use	ers	
					Part 5	: Selecti	ion cyl	ınders a	nd air	motors	
		_									
			brus								
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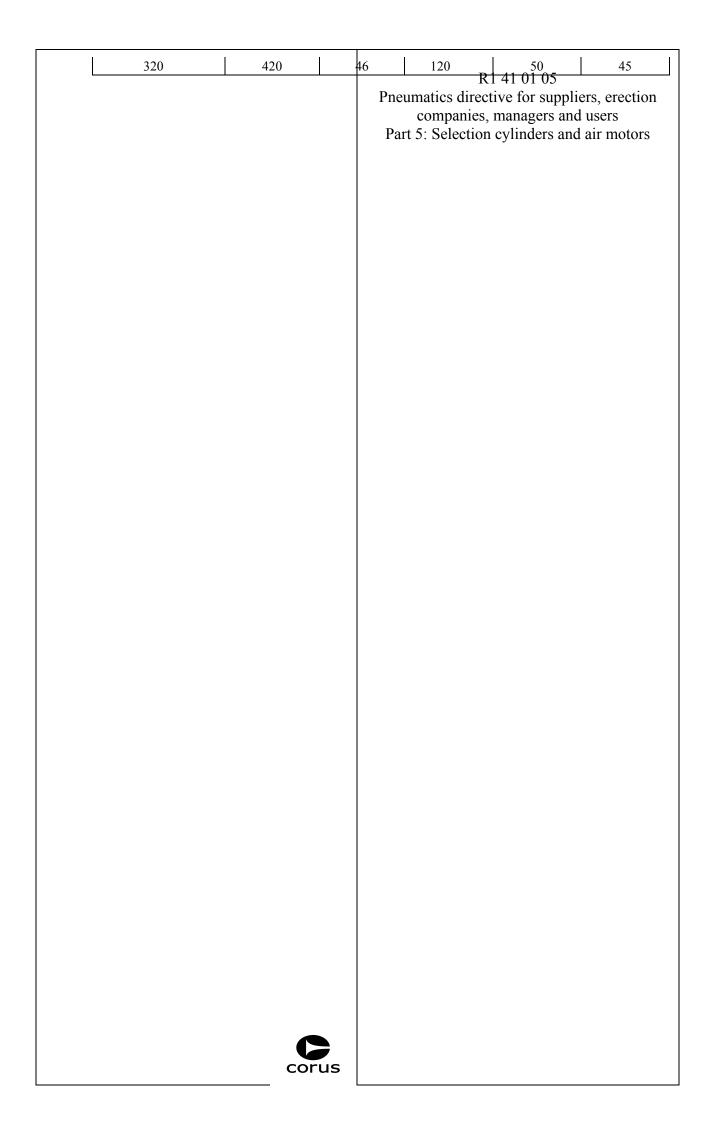
Pneumatics directive for suppliers, creation companies, managers and users Part 5: Selection cylinders and air motors				Ι						
Pneumaties directive for suppliers, crection companies, managers and users Part 5: Selection cylinders and air motors	100	230] :	21		60	R 1 41	25 01.05		20
companies, managers and users Part 5: Selection cylinders and air motors]	Pneuma	atics d	lirective	for supp	oliers,	erection
					C	ompar	nies, mai	nagers a	nd use	rs
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Pneumatics directive for suppliers companies, managers and us Part 5: Selection cylinders and air	sers
companies, managers and us	sers
Part 5: Selection cylinders and air	ir motors
corus	

160 315 31 90 35 30 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
Pneumatics directive for suppliers, erection companies, managers and users

200	335		31 90 35 30 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
	C	C orus	
		-	

250	37	' 5	41 110 45 40 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
	_	corus	



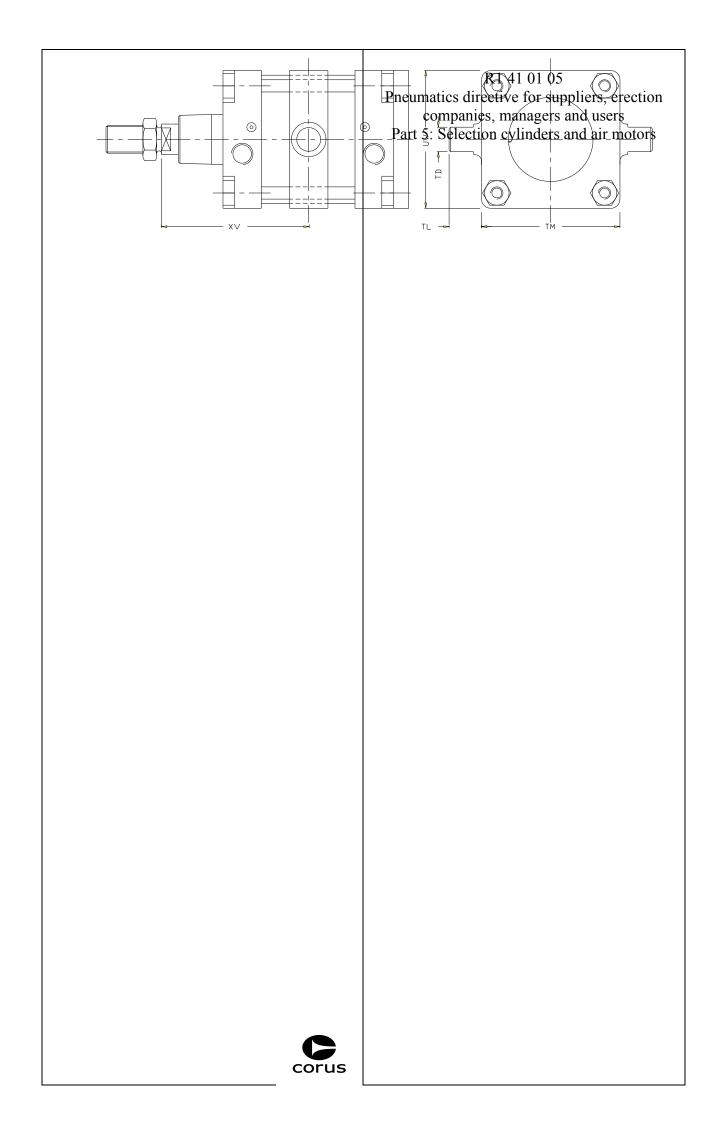


	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5.1.3.art.d.	Trunnion MT4	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	
	Corus	

Figure 5.4	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
Co	D orus





C.I 5 4	
Scheme 5.4	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Dimangiang in mm	
Dimensions in mm	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
Corus	



Piston diameter	TM h14	тт	h14	IIW may	Y V 11	TD e9
Piston diameter	1 WI II14	1 L		UW max.R	41 01 03	
			Pile	umatics direct	managers an	d users
			Pai	et 5: Selection	cylinders an	d air motors
	cor					
			i			

			1					
32	50		12	65	R1 41 (73 01 05		12
			Pneu	ımatics dire	ective f	or supp	liers, e	rection
			Dar	companie t 5: Selection	s, mana	agers ar	nd user	S
			rai	i 3. Selectio	on Cym	iueis ai	iu aii ii	101018
	C	C orus						
		45						

				1						
	40	63		16	75	R1 41	82,5 01 05		16	
					natics di compani 5: Select	rective es, ma	for supp nagers a	nd use	ers	Ī
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		_ co	rus							

50 75 16 95 R1 41 Pneumatics directive f companies, man Part 5: Selection cylin	for suppl	iers erect	
Pneumatics directive f companies, man	for suppl	iers erect	
companies, man	agers an	icis, cicci	tion
Part 5: Salastian aviir	agers an	d users	
rait 3. Selection cyli	nders an	d air moto	ors
corus			
corus			

Pneumaties directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors	,						•				
companies, managers and users Part 5: Selection cylinders and air motors		63	90				R1 41	97,5 01 05			
Part 5: Selection cylinders and air motors					Pneum	atics dir	ective	for supp	oliers,	erection	
					Part 5	companie - Selecti	es, mai	nagers a	nd use	ers	
					1 art 3	. Sciccii	on cyr	illucis a	iiu aii	11101015	
corus				corus							

80	110		20 130 110 20 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
	С	C orus	

100	132		25 145 120 25 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Tares. Selection cylinders and an inotors
		_	
		corus	
		corus	

	<u> </u>		
125	160		25 175 145 25 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Ture of Serection Cyminers and an inotors
	Ć	corus	
			

160	200		32	220	170 R1 41 01 0:		32
			Pne	umatics dire	ective for su	appliers.	erection
			Pai	companie t 5: Selection	es, managers on cylinders	s and us	ers motors
			1 41	t 3. Beleeti	on cymiaers	and an	inotors
	C	orus					

			1
200	250		32 260 185 32 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
		corus	

 250	320		40 320 205 40
 250			40 320 205 40 R1 41 01 05 Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
	C	orus	

			1
320	400		50 400 230 50 R1 41 01 05
			Pneumatics directive for suppliers, erection companies, managers and users
			Part 5: Selection cylinders and air motors
	_	Corus	
		.01 US	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection eylinders and air motors	1) if no dimensions will be specified, the	trunnion will be fixed on the value xv.
		Pneumatics directive for suppliers, erection companies, managers and users
corus	corus	

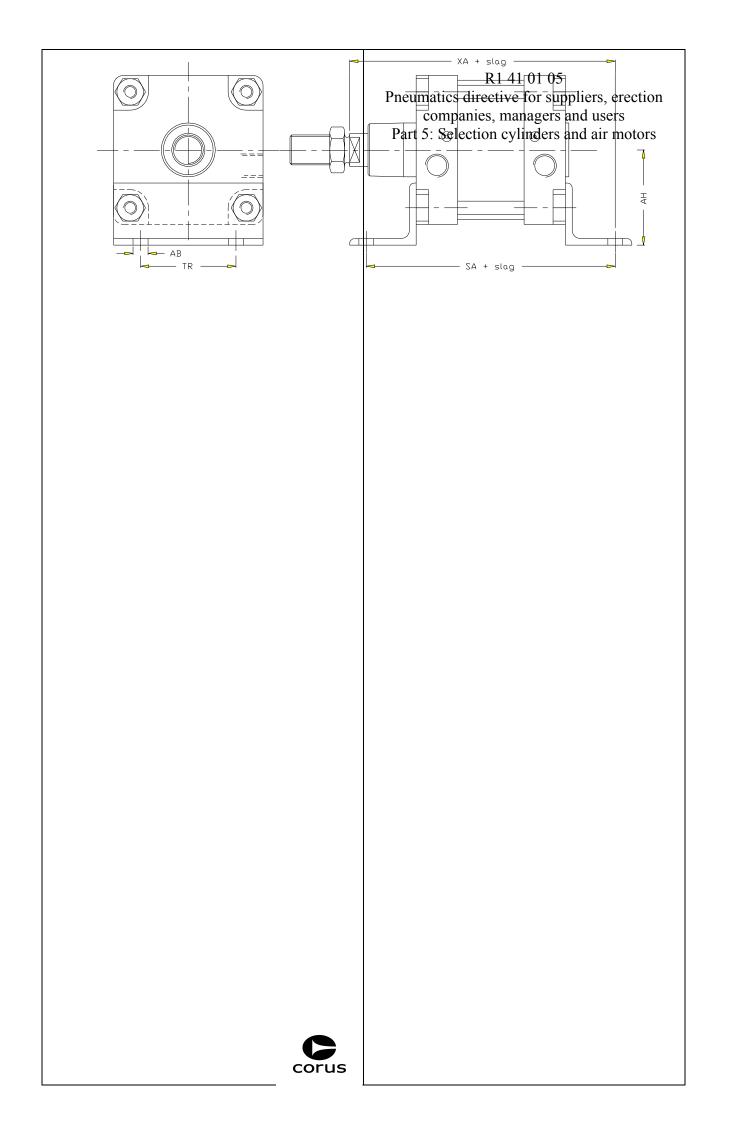
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corus	



512	End.,	
5.1.3.art.e.	End angles mounting MS.1	R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 5: Selection cylinders and air motors
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	cort	us
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Figure 5.5	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



Scheme 5.5	
Scheme 5.5	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

Dimensions in mm	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Piston diameter	XA	SA	AB diam. H141	41 0 ^T R5	AH
		l e	Pneumatics directiv	ve for suppli	ers, erection
			companies, n	nanagers and	l users
			Part 5: Selection of	ymiuers and	i all illotois
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		rus			
	CO	ius			

32	144	142	7 R1 41 01 05 32 32
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	CO	rus	

40	16	3 16	1 10 36 36 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	
		551 45	

1					
	50	175		170	10 45 45 R1 41 01 05
					Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
					Tart 5. Selection cylinders and an inotors
			corus		
			corus	5	

63	190	0 18	5 10 50 50 10 10 10 10 1
			Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 5: Selection cylinders and air motors
		corus	

					Г
	80	215		210	12 63 63 R1 41 01 05
					Pneumatics directive for suppliers, erection
					companies, managers and users Part 5: Selection cylinders and air motors
					Fart 5. Selection cylinders and an motors
			coru	_	
			Coru	۔ [

100	230	220	1	14,5	75	71
100	230	1 220	Drawe	R1	75 41 01 05	<u> </u>
			Pneum c	atics directi ompanies, i	ive for supp managers af	liers, erection and users
			Part 5	: Selection	cylinders ar	nd users nd air motors
	_					
		rus				
	СО	rus				

1		1	. 1 .			
	125	270) 2	250	16,5 90 90 R1 41 01 05	
					Pneumatics directive for suppliers, erecticompanies, managers and users	on
					Part 5: Selection cylinders and air motor	:S
					•	
			corus			
			coi us			

160	320	30	18,5 115 115 115 115 115
			Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		corus	

I	200	345	220	24 135 135
	200	545	320	R1 41 01 05
				Pneumatics directive for suppliers, erection companies, managers and users
				Part 5: Selection cylinders and air motors
				·
			corus	

250	380	350		o I	165	165
230	300	330	<u>2</u>	R1 4	165 1 01 05	165
			Pneumatic	s directive	e for supp anagers ar	liers, erection
			Part 5: Se	election cy	linders an	nd users nd air motors
				-		
	_					
		rus				
	COI	rus				

320	425	390	35	200 R1 41 01 05	200
			Pneumatics direction companie Part 5: Selection	ective for supp	oliers, erection and users and air motors
				,	
		rus			



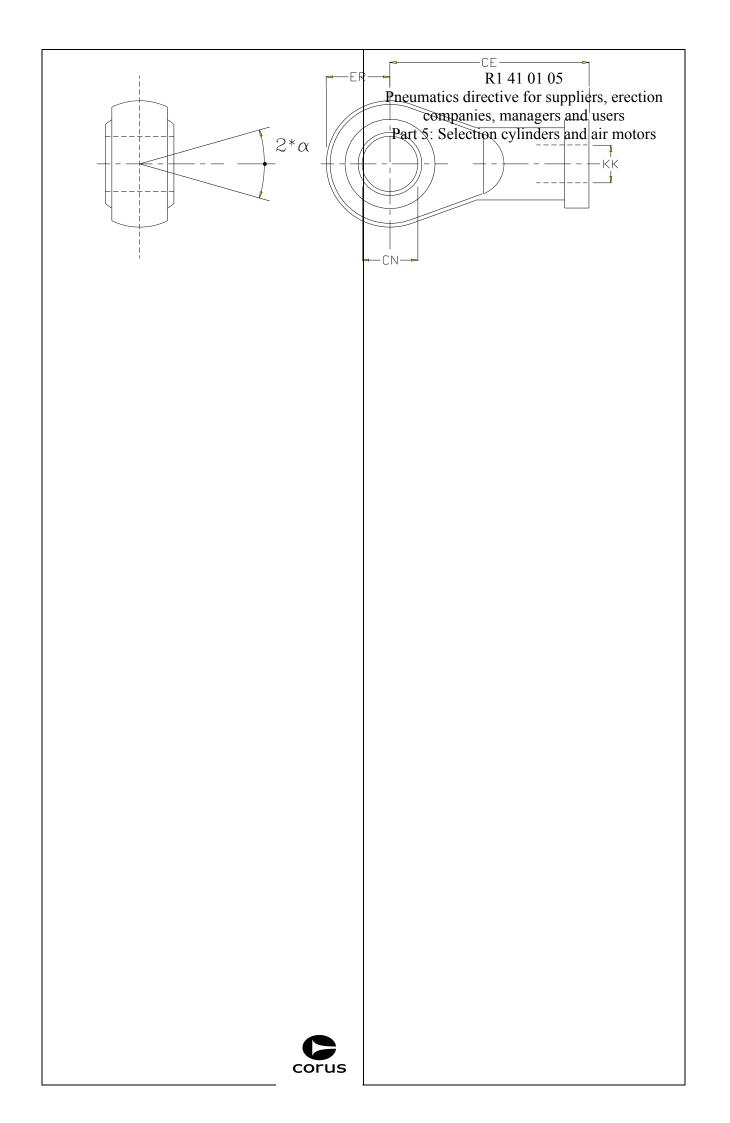
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5 1 2 ant f	Rod eye mounting	
5.1.5.art.i.	Rod eye mounting	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
		Part 5: Selection cylinders and air motors
	cor	us

Т	
Rod eye with ball bearing on piston rod	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Figure 5.6	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Scheme 5.6	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Piston diameter	α	ER	CN	GE 41 0	1.05	KK
				es directive for	r suppl	
			com	panies, manas	gers an	d users
			Part 5: Se	election cylind	ders an	d air motors
	4	C orus				

	32	13	14	10 43 M10 x 1,25
	~ -	13	1-7	Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				Part 5: Selection cylinders and air motors
			corus	
			corus	

1		Ī		<u>, </u>
	40	13	16	12 50 M12 x 1,25 R1 41 01 05
				Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				r are 3. Selection cymhaets and an motors
			corus	
			corus	

	50	15	2	21	16	6	4]	M16 x 1,5	
					Pneuma	atics dire	ective for	suppliers, e	rection
					Co Part 5:	ompanie Selectio	s, manag	ers and user ers and air r	rs notors
					Ture 5.	Selectiv	on Cynna	ors and an i	notors
			coru						
			coru	ıs					

	<u> </u>		1	<u> </u>	
		63	15	21	16 64 M16 x 1,5 R1 41 01 05
					Pneumatics directive for suppliers, erection
					companies, managers and users Part 5: Selection cylinders and air motors
				corus	
Î					

L	80	15	25	20 77 M20 x 1,5 R1 41 01 05
				Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
			corus	
			corus	

			<u>, </u>
100	15	25	20 77 M20 x 1,5 R1 41 01 05
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Tart 5. Selection cylinders and an inotors
		corus	
		corus	

125	15	35	30 110 M27 x 2
		-	Pneumatics directive for suppliers, erection
			companies, managers and users Part 5: Selection cylinders and air motors
			Tare 5. Selection cylinders and an inotors
		corus	
		corus	

I	160	16	40	35 125 M36 x 2
	100	10	40	35 125 M36 x 2 R1 41 01 05 Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				Part 5: Selection cylinders and air motors
			corus	

i	200		1 40	1 25 1 125 1 256 5
L	200	16	40	35 125 M36 x 2 R1 41 01 05
				Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
			corus	

ĺ	250	17	45	40	142	M42 v 2
	230	17	43	'	R1 41 (M42 x 2
				Pneumatio	cs directive fo	or suppliers, erection agers and users
				Part 5: Se	election cylin	iders and air motors
					,	
		4	corus			
			coi us			

İ	320	12	58	50 160 M48 x 2
		1	1	Pneumatics directive for suppliers, erection
				companies, managers and users Part 5: Selection cylinders and air motors
				Tart 5. Selection cylinders and air motors
			corus	

	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



5.2.	Air motors PN 10	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

5.2.1.	Scope and application	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	corus	

	1 11 0 0 0 0 0
Air motors are often specified for a specia	purpose, which means that no strict directives R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

can be given. The here mentioned manufa	acturers and types are listing a number of motors R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Fart 3. Selection cylinders and an inotors
corus	
corus	

	1	
which are used commo	nly at Corus area and	d are of proven quality. Selection out of this list R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Fart 5. Selection cylinders and all motors
	corus	
	corus	

is preferred, moreover because of the pr	resence of spare motors or parts.
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

5.2.2. Manufactures	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	corus

Vane motors	Piston motors R1 41 01 05	
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors	
	Part 3. Selection cylinders and all motors	
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Non reversible:	Revers	ible: R1 41 01 05 Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
	corus	

Atlas Caras	Atlas Canas
Atlas Copco	Atlas Copco R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Fait 3. Selection cylinders and an inotors
	corus
	corus

Globe	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	companies, managers and users Part 5: Selection cylinders and air motors
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Reversible:	
Reversione.	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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Atlas Copco	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	rance. Selection egamacis and an motors
corus	

Ingersoll-Rand	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

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Düsterloh	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Specifications are valid at an air pre	ssure of 6,2 bar (90 psi). R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	1 art 3. Selection cylinders and an inotors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

01 4 0	
Other types after agreement only.	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	
corus	

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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

P = maximum power	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

	
T = torque at maximum power	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

n = speed at maximum power.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	



2.2.3. Execution		D1 41 01 05
		R1 41 01 05
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 5: Selection cylinders and air motors
		Part 5: Selection cylinders and air motors
	corus	

Vone	
Vane motors	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Non reversible:	P (kW) RT4Nm) 05 n (rpm)
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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corus	

Atlas Copco, LZB-44-A-022-11	0,62 5,3 1100
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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Corus	

Reversible:	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
	corus

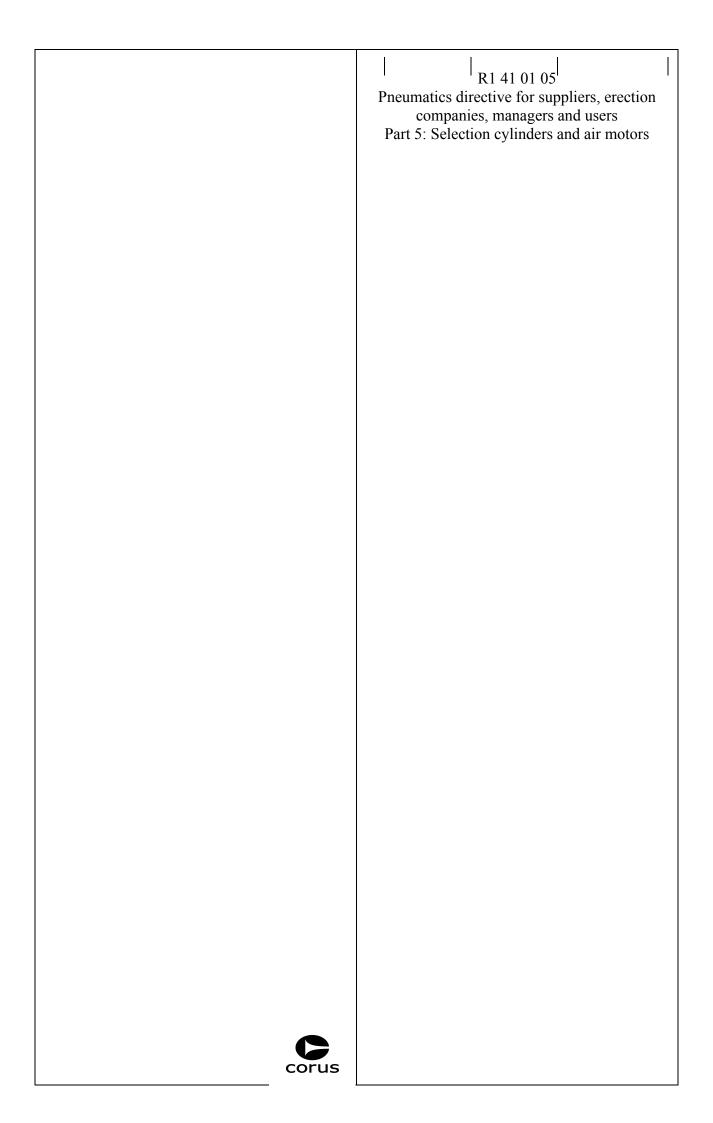
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Atlas Copco	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
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LZB-22-AR003-11	0,16 10,8 140
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Part 5: Selection cylinders and air motors
corus	

LZB-44-AR027-11	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	

LZB-44-AR006-11	0,40 11,4 330 R1 41,01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

LZB-44-AR003-11	0,40 19,4 190 R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
corus	



Ingersoll-Rand	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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3840-M	1,04 R1 41 01 05 390
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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3070'0	1,01 95 100 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Part 5: Selection cylinders and air motors
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4840-U2	2,24 250 83 83
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
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	Corus

	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Fart 3. Selection cylinders and an inotors
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Düsterloh,DMO 15-15-FFL	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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Distan matara	
<u>Piston motors</u>	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
	Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

Reversible:	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

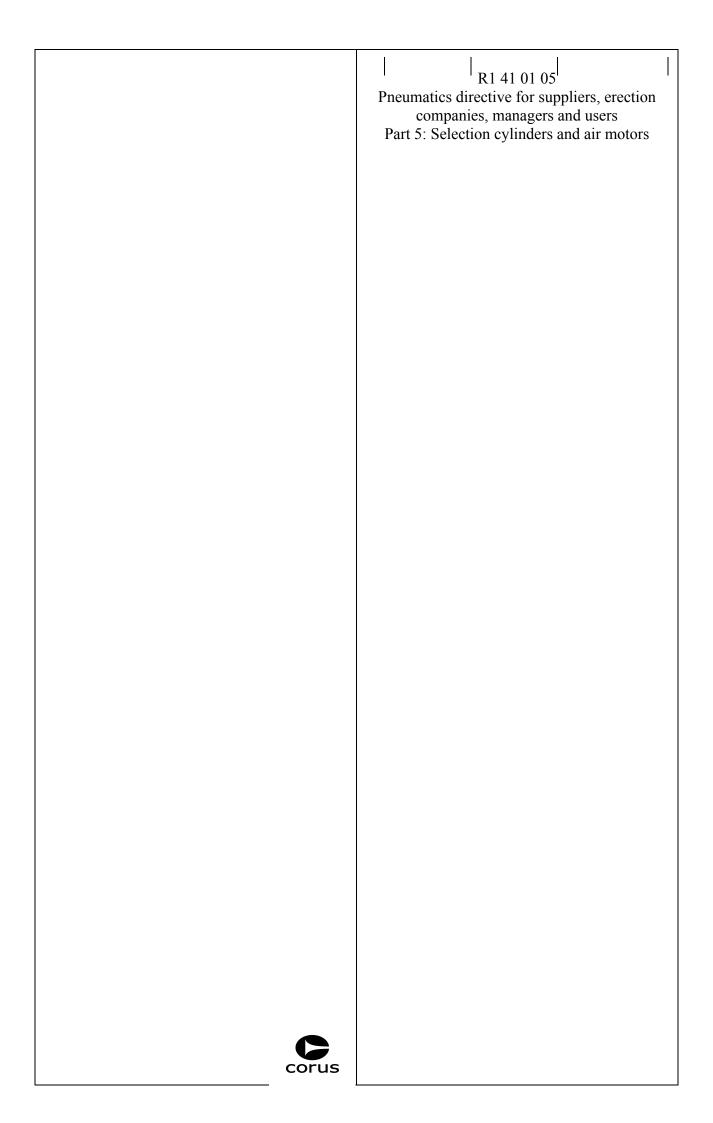
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Atlas Copco	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 5: Selection cylinders and air motors
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MZC-42-G-22-P1	1,1 32 320 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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MZD-42-G-32-P1	1,8 56 300
1,125 12 0 32 1 1	K1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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corus	

MZF-42-G-42-P1	3 125 230 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

MZH-42-G-51-P1	5 118 400 R1 41 01 05
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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Globe, with gear box	R1 41 01 05
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
	Ture 3. Serection cylinders and an inotors
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RM 110 BG + brake i=23,9	0,96 117,5 84 R1 41 01 05 84 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
corus	

RM 110 BG + brake i=86,6	0,96 425 23 R1 41 01 05 23 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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RM 210 BG i=85,2	2,43
	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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RM 310 BG i=12	4,05 275 133 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
corus	

5.3.	References	R1 41 01 05
		Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
		corus

In this Technical Directive reference is ma	Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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ISO	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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6431	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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8139	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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СО	rus



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VDMA 24562.	R1 41 01 05 Pneumatics directive for suppliers, erection
	companies, managers and users Part 5: Selection cylinders and air motors
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5.4.	Explanation		
J.7.	Ехріанаціон	R1 41 01 05 Pneumatics directive for suppliers, erection	1
		companies, managers and users Part 5: Selection cylinders and air motors	
		corus	

Version 1.0:	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Salaction evaluaters and air maters
	Part 5: Selection cylinders and air motors
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none.	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users Part 5: Selection cylinders and air motors
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Version 1.1:	R1 41 01 05 Pneumatics directive for suppliers, erection companies, managers and users
	Part 5: Selection cylinders and air motors
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	Part 5: Selection cylinders and air motors
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