

## R1 41 01 04 Technical Directive

Pneumatics directive for suppliers, erection companies, managers and users
Part 4: Selection energy distribution (valves)

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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

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For the mounting of valves with a surface	according ISO 5599 (see Technical Directive R1 R1 41 01 04
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41 01 04E, paragraph 4.2.) ganged sub plates are to be used, with side ports by R1 41 01 04	
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preference, because of the assembly in cal	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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While pipelines often are long, the connec	tion ports are LARGER than described
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Mounting of a single valve can be done w	ith normal <u>sub plates.</u>
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Coverplates are used when valves are not	present on the sub plate position, for example R1 41 01 04
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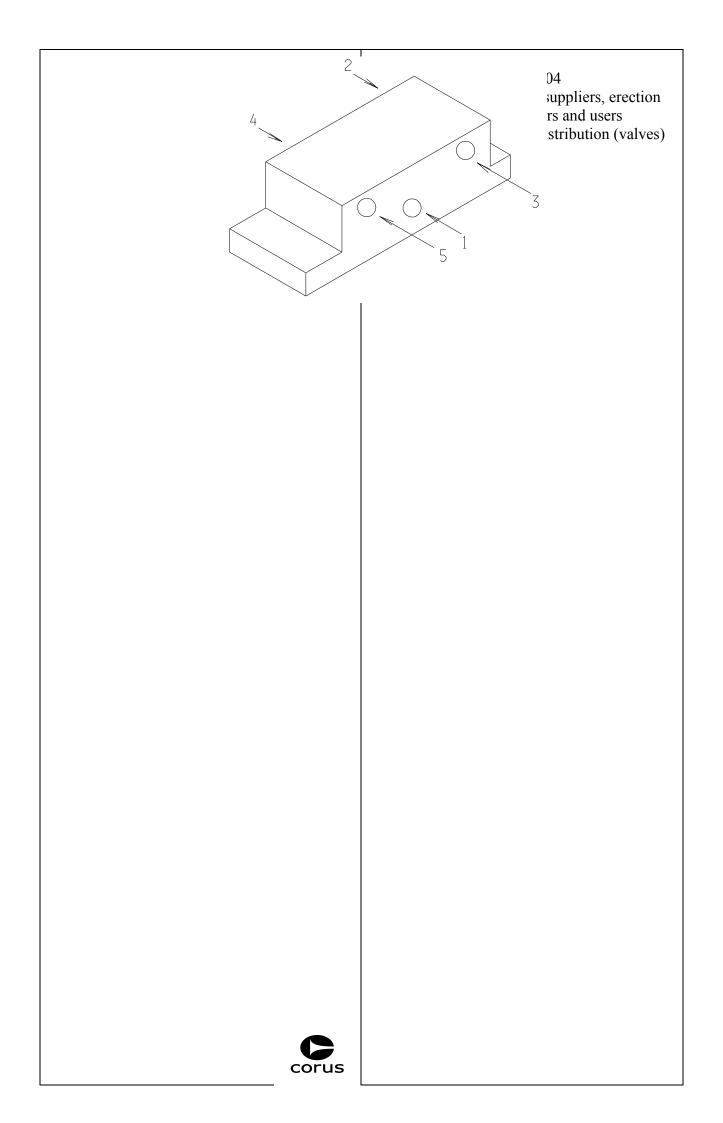
after a revision, or as a spare position.	
and the second of the transfer position.	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
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Scheme 4.1				
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Dime	nsions in mm (unless ot	herwise state	R1 41 01 04  Pneumatics directive for suppliers, erection companies, managers and users  Part 4: Selection energy distribution (valves)
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ISO	Manufacture	Type	Connections R1 41 01 04	Dimensions
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			companies, managers an Part 4: Selection energy distrib	d users
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size	Location Thread 1 x w x h
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	Parker	19/04	R1 41 01 04
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	1	Herion	25381.15	side   G 1/4"   110 x 48 x 32 R1 41 01 04
				Pneumatics directive for suppliers, erection
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Norgren M/P 19125 R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)					
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	2	Herion	25382.15	side   G 3/8"   124 x 57 x 40   R1 41 01 04
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4 Herion 25384.15 side 186 x 85 x 42 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)

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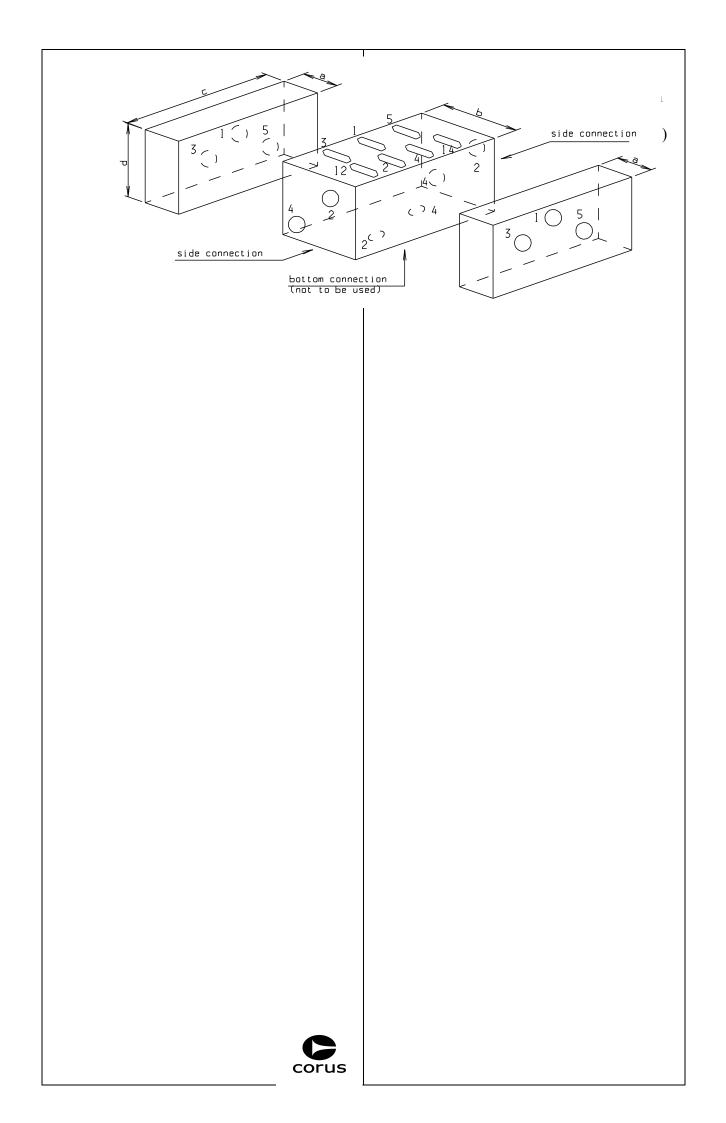
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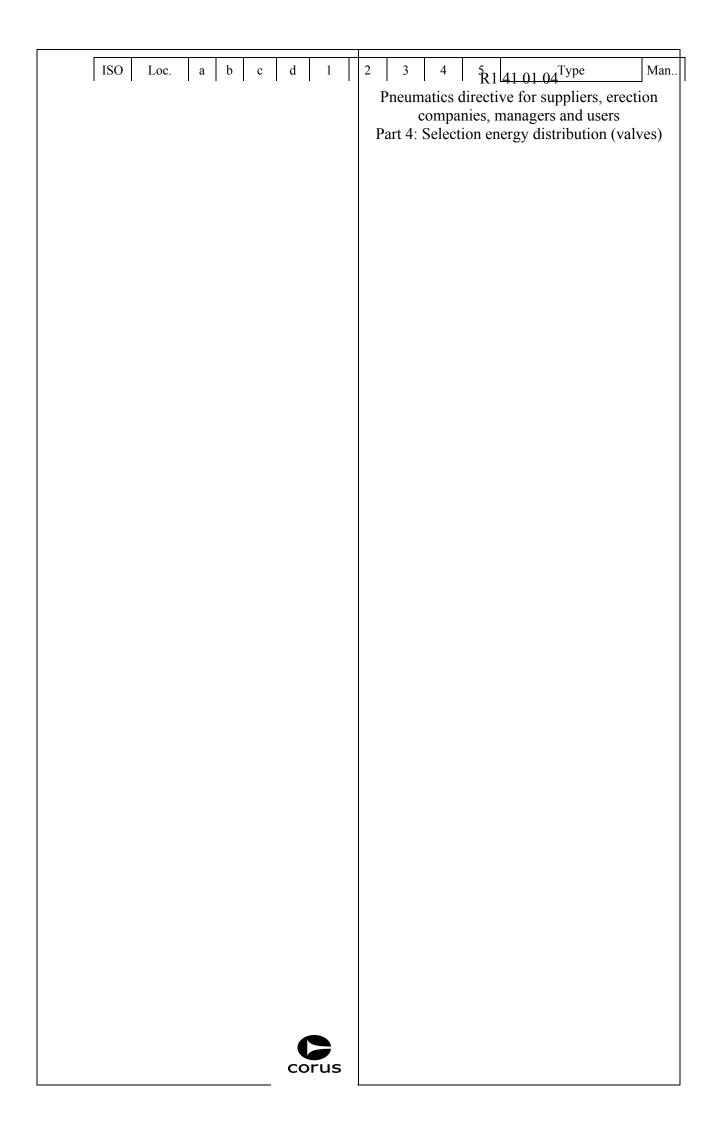
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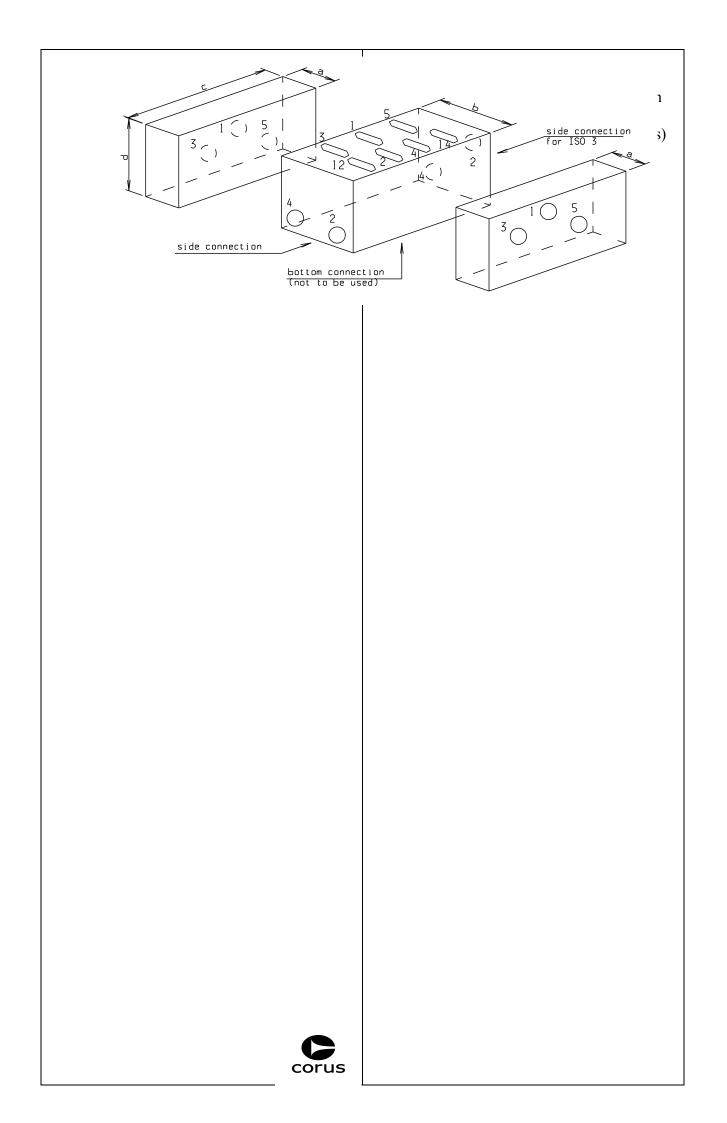
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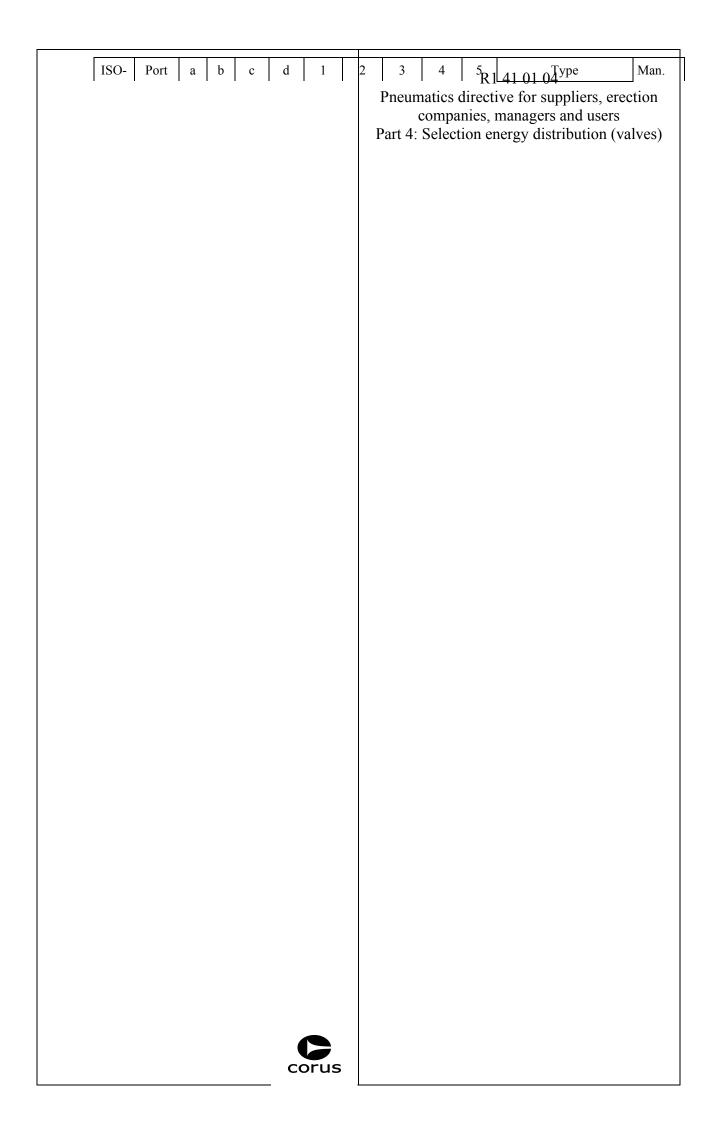
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L	3	zij	27	72	176	68	G 1	" G	3/4"   G 1"   G 3/4"   G 1"   2523320000   2153300000   Herion   R1 41 01 04
									Pneumatics directive for suppliers, erection companies, managers and users
									Part 4: Selection energy distribution (valves)
							_		
						c	Coru	) IS	

3 zij 32 71 190	131,5 G 1" G	G 3/4" G 1" G 3/4" G 1" 39903 39907 Parker R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
		Tare 1. Selection energy distribution (varves)
	corus	
	Corus	

4	zij	25 8	84 230	82	G 1" G	3/4" G 1" G 3/4" G 1" PS1444C PS1437 Parker R1 41 01 04
						Pneumatics directive for suppliers, erection
						companies, managers and users
						Part 4: Selection energy distribution (valves)
						, ,
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				CC	orus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

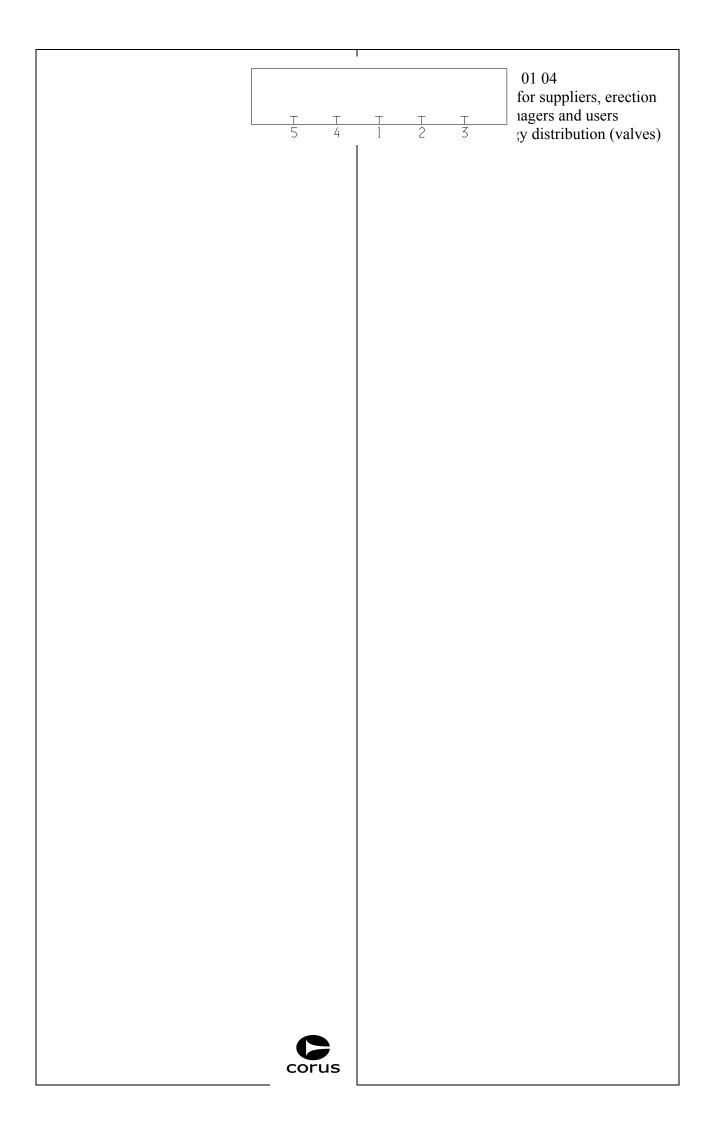
G thread according ISO 228-1.	
o micaa according 150 220 1.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
Cords	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.1.5. Cover plate	R1 41 01 04	
	Pneumatics directive for suppliers, erec companies, managers and users Part 4: Selection energy distribution (value)	
	corus	

Figure 4.4	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	



Sahama 4.4	
Scheme 4.4	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Part 4. Selection energy distribution (valves)
cort	us

ISO pattern	Manufacture and type 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
	rus
	i us

Parker		Herion 14	
Parker	com	Region 104 es directive for suppl panies, managers an ection energy distrib	d users
corus			

	1		1	1
1 9121-590	)2-51   E	AXT502-9A	0557673 R1 41 01 04	CQM/221/52/3/2/3
		Pneumatic	s directive for sup	pliers, erection
		comp	panies, managers a	and users
		Part 4: Sele	ection energy distri	bution (valves)
	corus			
	COLUS			

2 PS1267 EAXT512-9A 0,857734 R1 41 01 04  Pneumatics directive for suppliers, erectio companies, managers and users  Part 4: Selection energy distribution (valve)
Pneumatics directive for suppliers, erectio companies, managers and users
companies, managers and users
Part 4: Selection energy distribution (valve
corus
corus

3	PS1364	0557674 CQM/223/54/3/2/3 R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

4	PS1479		0558456 R1 41 01 04	CQM/224/56/3/2/3
		Pneumatics d	lirective for sup	nliers erection
		compa	nies, managers a	and users
		Part 4: Selecti	ion energy distri	ibution (valves)
				(1001100)
	corus			
	corus			

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.2.	Directional control valves accord	ing ISO 5599-1, size 1 -14 <sub>04</sub>
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

4.2.1.	Scope and application	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Directional control valves for pneumatics	have a mounting face according R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

ISO 5500 1. The velves are equipped with	Cromo rilata and pluga according ISO 4400 (2
18O 5599-1. The valves are equipped with	Cnomo pilots and plugs according ISO 4400 (3 R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

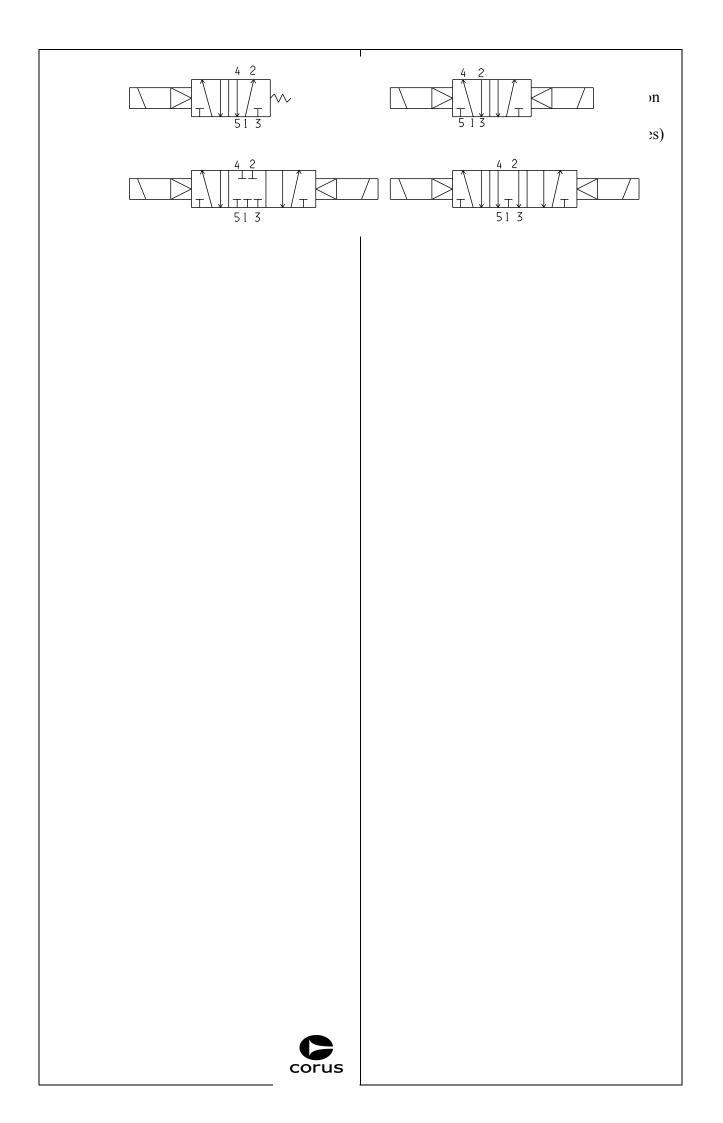
poles with earth contact, 24 VAC, indicate	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Plugs are also available integrated with ca	ble. R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (varves)
corus	

These values are for general applications.	
These values are for general applications.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Maximum pressure: 10 bar.	
Maximum pressure. 10 bar.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.2.2. Symbols	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves
	corus
	corus



4.2.3. Technical data	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves
	Drus Crus

Maximum pressure	: 10 bar	R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Minimal pressure	: 2,5 bar	R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

Allowable capacity	: size 1 - 880	l/min. (ΔP=1 bar, R <sub>1</sub> =6 <sub>1</sub> bar) <sub>04</sub> Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	C	
	corus	

size 2 - 164	0 l/min. ( $\Delta P=1 \text{ bar}_{R1}^{P_1}=6 \text{ bar}_{04}$
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (varves)
corus	

	1
size 3 - 32'	70 l/min. ( $\Delta P=1$ bar $P_1=6$ bar) $R_1 41 01 04$
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (varves)
corus	

size 4 - 491	0 l/min. ( $\Delta P=1 \text{ bar}, P_1=6 \text{ bar})$
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
corus	

Medium	: filtered and	dried air, lubricated prapon lubricated
	. Interest till	Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

C + 1	. C. L
Control	: Solenoids 24 V=, max. 10 Watt 1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
	corus
	corus

Valve plug	: Solenoids equipped with plug with red indication LED
. w. v prag	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	corus
	corus

(type Hir	rschman: GDME 2011 + screw 3N-7 + print + R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
corus	

GDME-LED 24 or Murrel elektronik plug + 5 mtr. cable, R1 41 01 04
Pneumatics directive for suppliers, erection companies, managers and users
Part 4: Selection energy distribution (valves)
corus
Corus

Pneumatics directive for suppliers	
companies, managers and u Part 4: Selection energy distribution	s, erection isers
Fait 4. Selection energy distribute	on (varves)
corus	

Emergency manual	· hy means of	f spring return push button 1 04
Emergency manuar	. by means of	Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

control	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Seal	: flexible seal	K1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		Part 4. Selection energy distribution (valves)
	corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.2.4. Manufactures and types	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
	rus

Scheme 4.5	
Scheme 4.5	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
Corus	

	Size 1 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Symbol	Manufacture	R1 41 01 $\Phi$
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		rate 1. Selection energy distribution (varves)
	corus	

1	Parker	19414 NTF + plug R1 41 01 04
<u> </u>		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
		Ture is serection energy distribution (varves)
	corus	
	corus —	

	Herion	2531268 0154 + plug
	Hellon	2531268.0154 + plug R1 41 01 04  Propagation direction for symplicity are at income.
		Pneumatics directive for suppliers, erection companies, managers and users
		companies, managers and users Part 4: Selection energy distribution (valves)
	corus	
	corus	

Pneumatics dire	424 NTF + plug R1 41 01 04 rective for suppliers, erection
Pneumatics direction companie	rective for suppliers, erection
L companie	1
Part A. Calactica	es, managers and users n energy distribution (valves)
1 art 4. Selection	in energy distribution (varves)
corus	
corus	

Hariar	25212/0 015/4   ml
Herion	2531268.0154 + plug R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Γ	D 1	10414325/775 - 1
3	Parker	19414XNTF + plug R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		1 art 4. Selection energy distribution (varves)
	corus	
	corus	

TI-st-s	2521669 0154 + -1
Herion	2531668.0154 + plug R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	rus
COI	rus

4	Parker	19424YNTF + plug R1 41 01 04
7	<u> </u>	Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

Uorion	2521769.0154 + ml
Herion	2531768.0154 + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
COFUS	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Sahama A.C.	
Scheme 4.6	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users  Part 4: Selection energy distribution (valves)
	Part 4: Selection energy distribution (valves)
corus	

	Size 2 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Symbol	Manufacture	R1 41 01 $\Phi$
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		rate 1. Selection energy distribution (varves)
	corus	

	Parker	29414 NTF + nl110
1	1 WINCI	29414 NTF + plug R1 41 01 04  Programatics directive for suppliers, creation
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	20.43	

1	Herion	2532268 0154 + plug
	Hellon	2532268.0154 + plug R1 41 01 04  Programatics directive for symplicity exaction
		Pneumatics directive for suppliers, erection companies, managers and users
		companies, managers and users Part 4: Selection energy distribution (valves)
	_	
	corus	
	corus	

Norgren	UM/22253/172/N/24 V= + plug R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

2	Parker	29424 NTF + plugs R1 41 01 04
2	Parker	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Harian	2522569 0154 ± plycas
Herion	2532568,0154 + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

Norgren	UM/22253/123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
	, ,
corus	

3	Parker	29424XNTF + plugs R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

111	orion	I	2522669 0154 + mluses
H	erion	_	2532668.0154 + plugs R1 41 01 04
		con	ics directive for suppliers, erection mpanies, managers and users
		Part 4: Se	lection energy distribution (valves)
	corus		
	Coi us		

Norgran	IJM/22252/6122/NJ/24 V- ± plugg
Norgren	UM/22253/6123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
	( ( ( ( ( ( (
corus	

4	Parker	19424YNTF + plugs R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Herion	2521769 0154 ± pluss
непоп	2531768.0154 + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	Ţ
Norgren	UM/22263/6123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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corus	
	<u> </u>

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Sahama 4.7	
Scheme 4.7	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

	Size 3 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Symbol	Manufacture		R1 41 01 (14) pe
		Pneumati	cs directive for suppliers, erection
		con	npanies, managers and users ection energy distribution (valves)
		1 alt 4. Sci	ection energy distribution (varves)
	corus		
	corus		

1	Parker	39414 NTF + plug R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Herion	2533268 0154 + plug
11611011	2533268.0154 + plug R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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corus	
corus	

l	Norgren	IJM/22353/172/N/24 V = + nluq
	Norgicii	UM/22353/172/N/24 V= + plug R1 41 01 04  Preumatics directive for suppliers, erection
		Pneumatics directive for suppliers, erection companies, managers and users
		companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

	D 1	2042437777
2	Parker	39424 NTF + plugs R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Harian	2522549 0154 + mlura
Herion	2533568.0154 + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Norgran	LIM/22254/122/NI/24 V- ± plugg
Norgren	UM/22354/123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
	= 1.1.
corus	
corus	

3	Parker	39424XNTF + plugs R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

Herion	2533668.0154 + plugs R1 41 01 04
	I Draymatica directive for avanliara creation
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
	The state of the s
	rus
co	rus

N	ID (/2005/1/5100 D)/2433
Norgren	UM/22354/6123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4	Parker	39424YNTF + plugs R1 41 01 04
	I	Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		Tune in serverion energy unsure union (varios)
	corus	

Uarion	2522749 0154   mluma
Herion	2533768.0154 + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Norgren    UM/2236/4123W24V=+pl	
Pneumatics directive for suppliers, ere companies, managers and users	ugs
companies, managers and users	
Part 4: Selection energy distribution (v	
	alves)
corus	
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.8	
Scheme 4.8	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	Size 4 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Symbol	Manufacture		R1 41 01 (14) pe
		Pneumati	cs directive for suppliers, erection
		con	npanies, managers and users ection energy distribution (valves)
		1 alt 4. Sci	ection energy distribution (varves)
	corus		
	corus		

1	Herion	2531268.0154 + plug R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Norgren	UM/22456/172/N/24 V= + plug R1 41 01 04
, -	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

2	Herion	2534568.0154 + plugs R1 41 01 04
2	Herion	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Norgran	IJM/22456/122/NJ/24 V- ± plugg
Norgren	UM/22456/123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

3	Herion	2534668.0154 + plugs R1 41 01 04
3	Herion	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Norgran	IJM/22456/6122/NJ/24 V- ± pluce
Norgren	UM/22456/6123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
 corus	

Norgran	LIM/22466/122/NI/24 V- ± pluce
Norgren	UM/22466/123/N/24 V= + plugs R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
 corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.3.	Proportional pressure con	trol valv	Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
	C	corus	

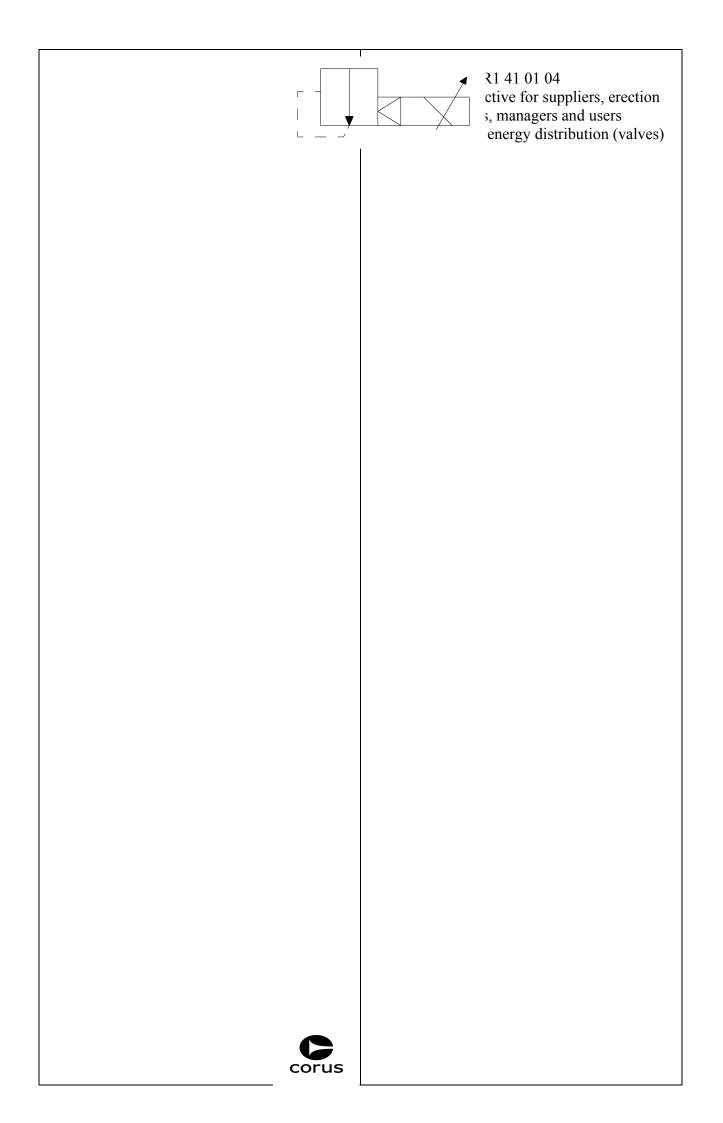
4.3.1. Scope and application	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
COL	

Proportional pressure control valves will be	e used at applications where an adjustable force R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
_	
corus	
corus	

is required.	
is required.	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

The pilot signal is electrical. The valve has	s a closed circuit built in pressure control.
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Tart 4. Selection energy distribution (varves)
corus	
corus	

4.3.2.	Symbol according NEN 3348 (ISO 1219-	1)	R1 41 01 04 Pneumatics directive for suppliers, erectio companies, managers and users Part 4: Selection energy distribution (valve
	corus		



4.3.3.	Technical data manufacturer: Mannes	mann, Rexroth
		R1 41 01 04 Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	Corus	

Precision pressure control valve, proportion	nal R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
corus	

Maximum supply pressure 8 bar	
Maximum suppry pressure 8 bar	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (varves)
corus	;

Maximum flow 600 l/min ( $\Delta P=1$ bar, $P_1=1$	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Connection BSP 1/4"	
Connection Doi 1/4	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Controlled pressure 0,1 - 6 bar	
Controlled pressure 0,1 - 0 var	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
Corus	

Repeatability and hysteresis 0,4 bar	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Dower gumly 24 V-	
Power supply 24 V=	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Current control 4-20 mA	Type:	561.010.215.0 P1.41.01.04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

Voltage control 0-10 V	Type:	561.010.202.0. R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	corus	

<i>1.3.4</i> .	Technical data manufacturer: Herion	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Proportional pressure control valve with integrated electronic pressure control R1 41 01 04				
	Pneumatics directive for suppliers, erection			
	companies, managers and users Part 4: Selection energy distribution (valves)			
	Ture 1. Selection energy distribution (varves)			
corus				

Maximum supply pressure 10 bar	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Can be mounted at a ISO 5500 mounting	face size 1 2 or 3 by means of an adapter plate
Can be indunted at a 150 3377 indulting	face size 1, 2 or 3 by means of an adapter plate. R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Tare 1. Selection energy distribution (varves)
corus	
Corus	

Repeatability and hysteresis 0,05 bar	
repeatability and hysteresis 0,00 var	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Downer oursely 24 V	
Power supply 24 V=.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.9	
Scheme 4.9	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Part 4. Selection energy distribution (valves)
core	
cor	us

ISO		Control signal R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	COI US	

pattern		4 - 20 mA R1 41 01 04 <sup>0</sup> - 10 V
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

	1		4091112	R1 41 01 04	
			Pneumatics directive for suppliers, erection		
			companies, managers and users		
			Part 4: Selection energy distribution (valves)		
		corus			
		corus			
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1			10015:-		10010:5
	2		4091312	R1 41 01	4091310 04
			Pneumatics directive for suppliers, erection		
			companies, managers and users		
			Part 4: Selection energy distribution (valves)		
		corus			
			<u> </u>		

,		ı	1	,
	3		4091412	R1 41 01 04
			Pneumatics dir	ective for suppliers, erection
			companie	es, managers and users
			Part 4: Selection	n energy distribution (valves)
		corus		
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.4.	Sandwich valves according ISO 55	99 P1 41 01 04
	S	R1 41 01 04 Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	corus	

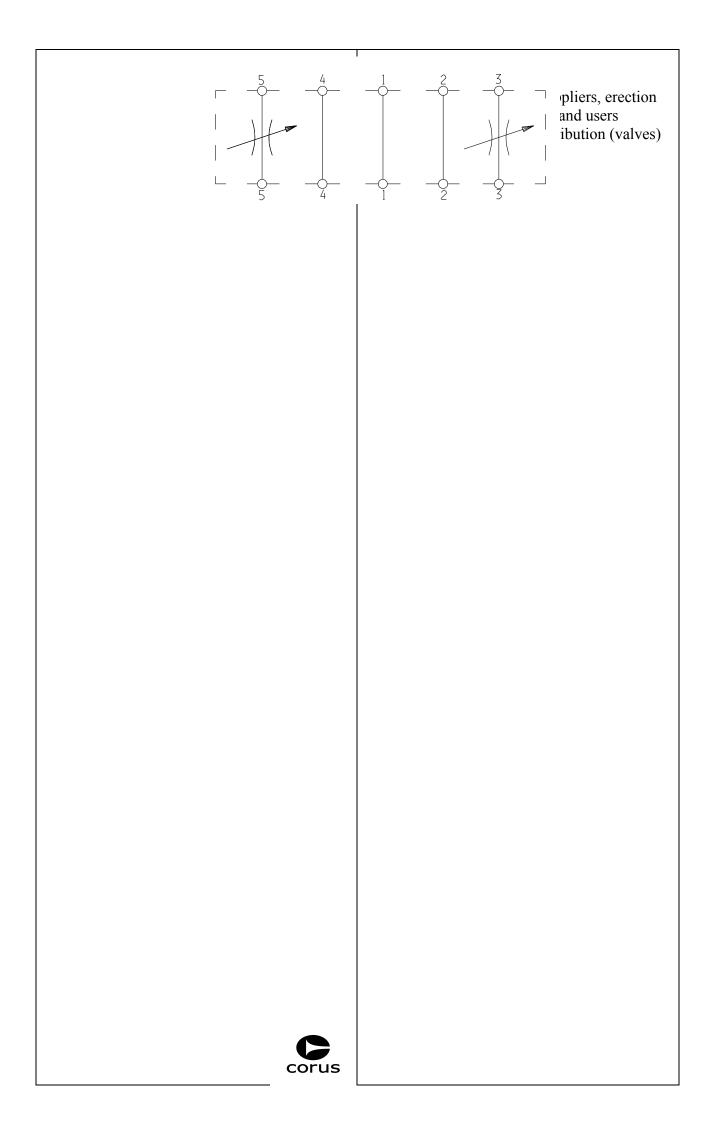
111	Seena and anniestica	
4.4.1.	Scope and application	R1 41 01 04 Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
	cor	
		us

Sandwich valves are used mainly for l	imiting of pressures and flows. Mounting face R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
coru	
coru	S

according ISO 5599. Max. pressure 10 bar	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.4.2.	Throttle valves, sandwich type	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

TOTAL COLUMN TO THE COLUMN TO	
Throttling in connection 3 and 5.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
corus	



4.4.3.	Manufactures and sizes	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

Parker	Herion R1 41 01	Norgren 04
	Pneumatics directive for companies, manage Part 4: Selection energy d	ers and users
corus		
corus		

Г			
	ISO-size	Ordering numb	10101
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
			1 art 4. Sciection chergy distribution (varves)
		corus	
		corus	

1	19501	0557618	CQM 22152/3/26
	-	0557618 R1 41 01 Pneumatics directive for	04 suppliers erection
		companies, managers and users	
			distribution (valves)
	corus		

2	29501	0557619 CQM 22153/3/26 R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
		1 art 4. Selection energy distribution (varves)
	corus	
	Corus	

3	39501	0557620 R1 41 01	CQM 22154/3/26
		Pneumatics directive for	suppliers, erection
		companies, manag	gers and users
		Part 4: Selection energy	distribution (valves)
	corus		

4	N 91262	0558357 R1 41 01 04 CQM 22156/3/26
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
		r art 4. Selection energy distribution (varves)
	corus	
	corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.4.4. K	Reducing valve, sandwich typ	pe (ISO)	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
			2 m. v. servenen energy distribution (varves)
		Corus	

4.4.4.art.a.	Reducer function in por	·t 1	R1 41 01 04 Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
		Corus	

	M. C.
	Manufacture R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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ISO size	Parker R1 41 01 04 Herion
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Fait 4. Selection energy distribution (varves)
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1		19/N91374-1	2538130 (button left)
1	I		2538130 (button left) R1 41 01 04
		Pneumatics d	irective for suppliers, erection nies, managers and users
		Part 4: Selection	on energy distribution (valves)
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	corus _		

	2538133 (button right) R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

2	29/N91375-1 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
cor	rus

3	39/N91376-1 2538330 (button left) R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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	2538333 (button right) R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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4	49/N91377-1 R1 41 01 0 <sup>2</sup>	4
	Pneumatics directive for su	
	companies, managers	and users
	Part 4: Selection energy dis	tribution (values)
	1 art 4. Selection energy dis	irroditori (varves)
	corus	

4.4.4.art.b.	Reducer function in port 2	2	R1 41 01 04 Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
	Co	<b>D</b> orus	

	Manufacture R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

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	ISO size		Parker	R1 41 01 04 Norgren
			Pneumatics d	irective for suppliers, erection
			compan	nies, managers and users
			Part 4: Selection	on energy distribution (valves)
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		corus		

I	1	<u> </u>	DD 2024
	1		9/N91374-2 FP 7054 R1 41 01 04
			Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
			Tare in serverien energy answer amon (varies)
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2	29/N91375-2 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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3	] 3	9/N91376-2	FP 7074 R1 41 01 04
		Pneumatics dire	ective for suppliers, erection
		companies Part 4: Selection	s, managers and users energy distribution (valves)
		Tare 4. Selection	chersy distribution (varves)
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4	49/	/N91377-2	R1 41 01 04	
		compa	directive for suppliers, erection anies, managers and users ction energy distribution (valves)	
	corus			

4.4.4.art.c.	Reducer function in por	rt 4	R1 41 01 04 Pneumatics directive for suppliers, erection
			companies, managers and users Part 4: Selection energy distribution (valves)
		Corus	

	M. C.
	Manufacture R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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corus	

ISO size	Dorkor Norman
ISO size	Parker R1 41 01 04 Norgren
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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1	19/N91374-4 FP 7055 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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2	29/N91375-4 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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3	39/N91376-4 FP 7075 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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4	49/N91377-4 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
	Tare 1. Selection energy distribution (varves)
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4.4.4.art.d.	Reducer function in port 2 a	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)	
	COL	rus	

	Manufacture R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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ISO size	Darker
ISO size	Parker R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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1	19/N91374-2/4	
	Pneumati	R1 41 01 04 cs directive for suppliers, erection npanies, managers and users lection energy distribution (valves)
	corus	

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2	29/N91375-2/4 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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3	39/N91376-2/4 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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4	49/N91377-2/4 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.5. In line valves	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus

4.5.1. Scope and application	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

In line valves for sub plate mounting are p	referred. R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

For special functions are large size, in line	mounting is some inevitable. R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

The following components with female th	readed connection are to be applied:
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Ey ( )
corus	
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

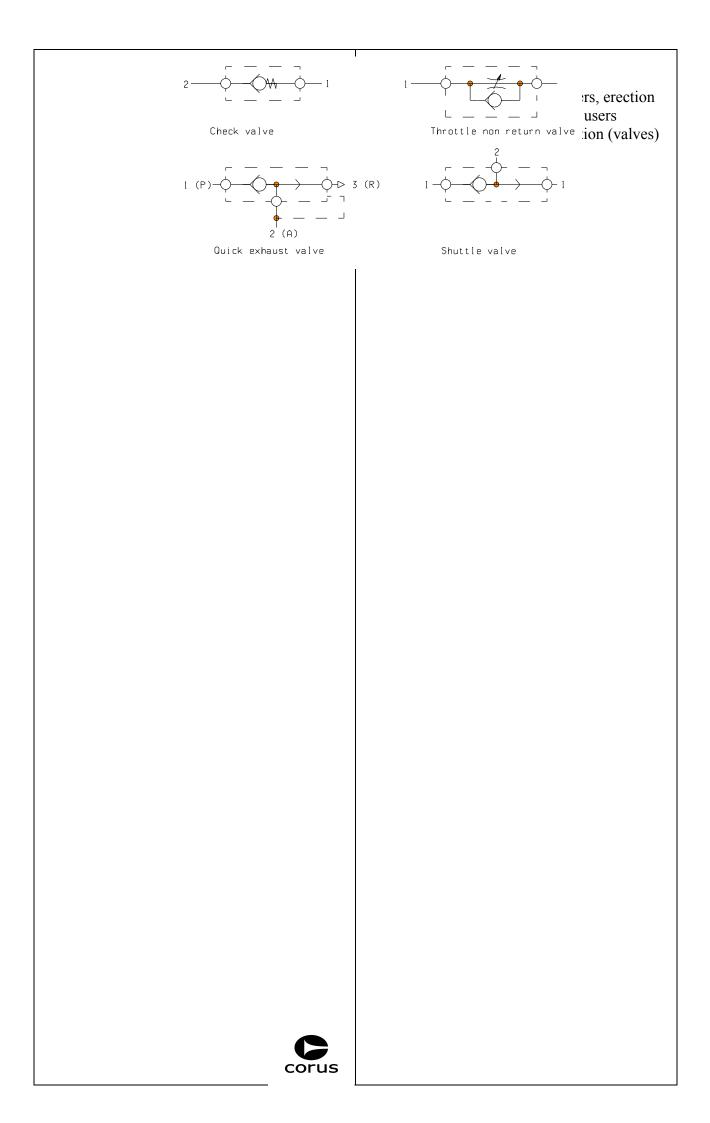
<ul><li>check valves (non return valves)</li></ul>	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

<ul><li>throttle/non return valves</li></ul>	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	

ghuttle volves	
<ul><li>shuttle valves</li></ul>	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	corus

quials avhaust valvas	
<ul> <li>quick exhaust valves.</li> </ul>	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
cor	
cor	us

4.5.2.	Symbols according NEN 3348 (ISO 1219	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valve)



4.5.3. Check valves		R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves
	corus	

Figure 4.5	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus
	corus

Manufacture: Norgren may pressure 1	7 har opening pressure 0.5 har
Manufacture: Norgren, max. pressure 1	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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T 1	
Type number	Gonnection <sub>4</sub> inside
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	s

S/520	G 1/8"
5/520	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Fait 4. Selection energy distribution (varves)
corus	

S/521	G 1/4" R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
cor	us

S/522	G 1/2"
5/344	R1 41 01 04  Proventing directive for symplicity execution
	Pneumatics directive for suppliers, erection companies, managers and users
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	5

S/523	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
coru	is

Pneumatics dire	G 1" R1 41 01 04 ective for suppliers, erection es, managers and users a energy distribution (valves)
Pneumatics direcompanie Part 4: Selection	ective for suppliers, erection es, managers and users a energy distribution (valves)
Part 4: Selection	es, managers and users n energy distribution (valves)
Part 4: Selection	energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.5.4.	Throttle non return valve, female threade	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valve)
	corus	

Manufacture: Norgren, max. pressure 17	,5 bar, opening pressure 1 bar
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
corus	
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Typa number	NW		Connection!	
Type number		oumatics di	R1 41 Connection"	<u></u>
	PIII	compan	rective for suppliers, erection ies, managers and users	)II
	Par	t 4: Selection	on energy distribution (valv	es)
	corus			

S/836  R141 01 04  Pneumatics directive for suppliers, erectic companies, managers and users Part 4: Selection energy distribution (valve)	1
Pneumatics directive for suppliers, erection companies, managers and users	
companies, managers and users	n
Part 4: Selection energy distribution (valv-	
	s)
corus	
corus	

ı	1.5/0.5		1	ſ
	M/837		R1 41 01 04	
			Pneumatics directive for suppliers, erec	tion
			companies, managers and users Part 4: Selection energy distribution (va	lves)
			Ture 1. Selection energy distribution (va	1105)
		corus		
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M/839		R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	
	corus	

i		1		
	M/840		R1 41 01 04	
			Pneumatics directive for suppliers, erection	
			companies, managers and users Part 4: Selection energy distribution (valves	)
			Ture is server on energy unsurrounion (varves	,
		corus		
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M/855	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
	corus
	corus

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.10	
Scheme 4.10	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Manufacture: Ross. max. pres	essure 10 bar, opening pressure 0.3 bar R1 41 01 04
,, p	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	corus

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Type number    Cametrion     Pneumatics directive for suppliers, erection companies, managers and users     Part 4: Selection energy distribution (valves)		
Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)	Type number	Connection"   R1 41 01 04
Part 4: Selection energy distribution (valves)		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
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New	Old	R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users Part 4: Selection energy distribution (valves)
		1 art 4. Selection energy distribution (valves)
	corus	

			i
D 1968 A 2007	D 515 M 1	G 1/8" R1 41 01 04	
		Pneumatics directive for suppliers	s, erection
		companies, managers and us	sers
		Part 4: Selection energy distribution	on (valves)
	corus		
	Corus		

D 1968 A 3007	D 515 M 1	G 1/4" R1 41 01 04	
		Pneumatics directive for suppliers,	erection
		companies, managers and use	ers
		Part 4: Selection energy distribution	(valves)
			( )
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	corus		

,	1			1
	D 1968 A 4007	D 515 M 1	R1 41 01 04	
			Pneumatics directive for suppliers	, erection
			companies, managers and us	ers
			Part 4: Selection energy distribution	n (valves)
		corus		
		Corus		

D 1968 A 5007	D 515 M 1	G 3/4" R1 41 01 04	
		Pneumatics directive for suppliers,	erection
		companies, managers and use	rs
		Part 4: Selection energy distribution	(valves)
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	corus		

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D 1968 A 6007	D 515 M 1	G 1" R1 41 01 04	
		Pneumatics directive for suppliers	s, erection
		companies, managers and u	sers
		Part 4: Selection energy distribution	on (valves)
	_		
	corus		
	corus		

D 1968 A 7007	D 515 M 1	G 1 1/4" R1 41 01 04	
		Pneumatics directive for suppliers, e	rection
		companies, managers and user	3
		Part 4: Selection energy distribution	(valves)
		Tart 4. Selection energy distribution	(varves)
	corus		
	corus		

1 1			i
D 1968 A 8007	D 515 M 1	G 1 1/2" R1 41 01 04	
		Pneumatics directive for suppliers,	erection
		companies, managers and use	rs
		Part 4: Selection energy distribution	(valves)
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D 1968 A 9007 D 515 M 1 R 141 01 04  Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)				
Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)	D 1968 A 9007	D 515 M 1	G 2"	
companies, managers and users Part 4: Selection energy distribution (valves)			N1 41 U1 U4  Programatics directive for suppliers area	tion
Part 4: Selection energy distribution (valves)			rileumatics directive for suppliers, erec	uon
			Companies, managers and users	leva = )
Corus			Part 4: Selection energy distribution (va.	ives)
corus				
COTUS				
		corus		

4.5.5. Shu	ttle valves, female thread	ed	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
		corus	

Scheme 4.11	
Scheme 4.11	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Manufacture: Norgren, max. pressure 10	par, opening pressure 0,7 bar R 1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Tart 4. Selection energy distribution (varves)
corus	
Corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Tyma	numbor		NW	Connection G
1 ype	number			R1 41 Connection G  directive for suppliers, erection
			compa	inies, managers and users
			Part 4: Select	tion energy distribution (valves)
		corus		

Pneumatics directive for suppliers, crectio companies, managers and users Part 4: Selection energy distribution (valve	
Pneumatics directive for suppliers, erectio companies, managers and users	
companies, managers and users	1
Part 4: Selection energy distribution (valve	
	s)
corus	
corus	

S/592	1	1///"	1
3/392		R1 41 01 04	_
		Pneumatics directive for suppliers, erection companies, managers and users	n
		companies, managers and users Part 4: Selection energy distribution (valve	es)
	corus		
	corus		

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.12	7
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Manufacture: Ross, max. pressure 10 bar	opening pressure 0.3 bar R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	
Corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Г				
	Type number		NW	R1 41 Connection G
			com	es directive for suppliers, erection panies, managers and users ection energy distribution (valves)
		corus		

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D 1968 A 2003	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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cor	us

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.5.6.	Quick exhaust valves, female threaded	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves
	corus	

Sahama 4.12	
Scheme 4.13	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

Manufacture: Norgren, max. pressure 10	bar, opening pressure 0.7 bar
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Type number	N	W	R14Connection
		Pneumatio	es directive for suppliers, erection panies, managers and users
		Part 4: Sel	ection energy distribution (valves)
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	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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S/510		1/4" - 3/8" - 3/4" R1 41 01 04
	,	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
		Part 4: Selection energy distribution (valves)
	corus	

S/511		1/2" - 3/4" - 3/4" R1 41 01 04
		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Scheme 4.14	
Scheme 4.14	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (varves)
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Manufacture: Ross, max. pressure 10 bar	opening pressure 0.3 bar R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Type number	N	ſW	R1 Connection G
		Pneumatic	es directive for suppliers, erection panies, managers and users
		Part 4: Sele	ection energy distribution (valves)
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D 1968 A 3005		16		3/8" - 3/8" - 1/2" R1 41 01 04	
		Pneun Part 4:	natics dire	ective for suppliers, s, managers and use energy distribution	erection ers n (valves)
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D 1968 A 4005	16	1/2" 1/2" 1/2"	<u> </u>
D 1908 A 4005		1/2" - 1/2" - 1/2" R1 41 01 04	
		umatics directive for suppliers, ere companies, managers and users 4: Selection energy distribution (value)	
	corus		

D 1968	A 5005	18		3/4" - 3/4" - 1"	
	1		R1 eumatics direct	3/4" - 3/4" - 1"   41 01 04   ive for suppliers, er	ection
		D.	companies,	managers and users nergy distribution (v	1 \
		Par	t 4: Selection e	nergy distribution (	valves)
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	CC	ע us			

D 1968 A 6005		18		1" - 1" - 1"	
7,000	l		Ritics direct	1" - 1" - 1" <del>1 41 01 04</del> ive for suppliers, 6	erection
		CO	ompanies,	managers and use nergy distribution	rs
		Part 4: S	election e	nergy distribution	(valves)
	corus				

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.6.	"Slow start" valve	
7.0.	Sion start valve	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
	coru	is

4.6.1. Scope and application	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves
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In certain circuits, especially with large flo	ows, the switch-on of supply pressure will cause R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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undesired movements.	R1 41 01 04 Pneumatics directive for suppliers, erection
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	companies, managers and users Part 4: Selection energy distribution (valves)
	1 art 4. Selection energy distribution (valves)
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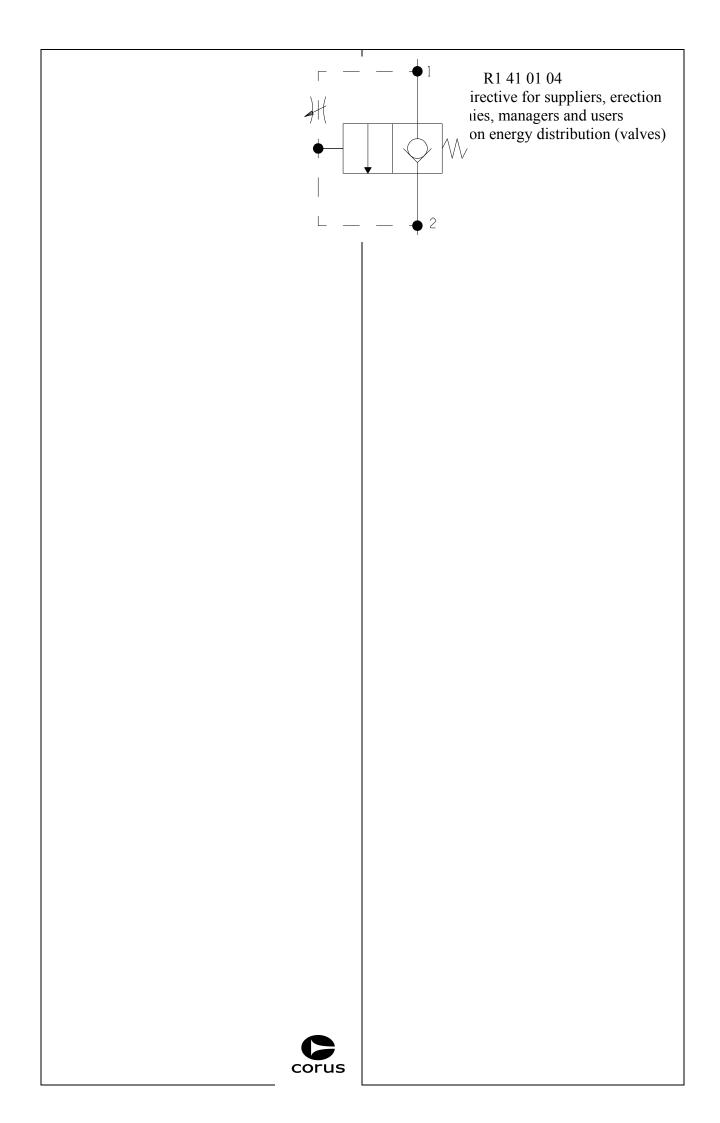
With a slow start valve, the pressurisation	will be decelerated. R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Note:	
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	companies, managers and users Part 4: Selection energy distribution (valves)
	Part 4: Selection energy distribution (valves)
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A "slow start" valve is no safety valve!	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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4.6.2.	Symbol according NEN 3348 (ISO 12	219-1	)
			R1 41 01 04 Pneumatics directive for suppliers, erection
			companies, managers and users
			Part 4: Selection energy distribution (valves)
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4.6.3.	Technical data	
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		companies, managers and users Part 4: Selection energy distribution (valves)
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Scheme 4.15	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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Manufacture: Ross, max. pressure 10 bar	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Tyma	numbor		NW	Connection G
1 ype	number			R1 41 Connection G  directive for suppliers, erection
			compa	inies, managers and users
			Part 4: Select	tion energy distribution (valves)
		corus		

D 2701 1 1017	12
D 2781 A 4017	13 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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D 2781 A 6017	21  1"
D 2/01 A 001/	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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D 2701 A 2017	29 1 1/2"
D 2781 A 8017	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Fait 4. Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Manufacture Norgren:	D1 41 01 04
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Part 4: Selection energy distribution (valves)
cor	us

In the line of FRL units from Norgren is a	lso a slow start valve available. See Technical R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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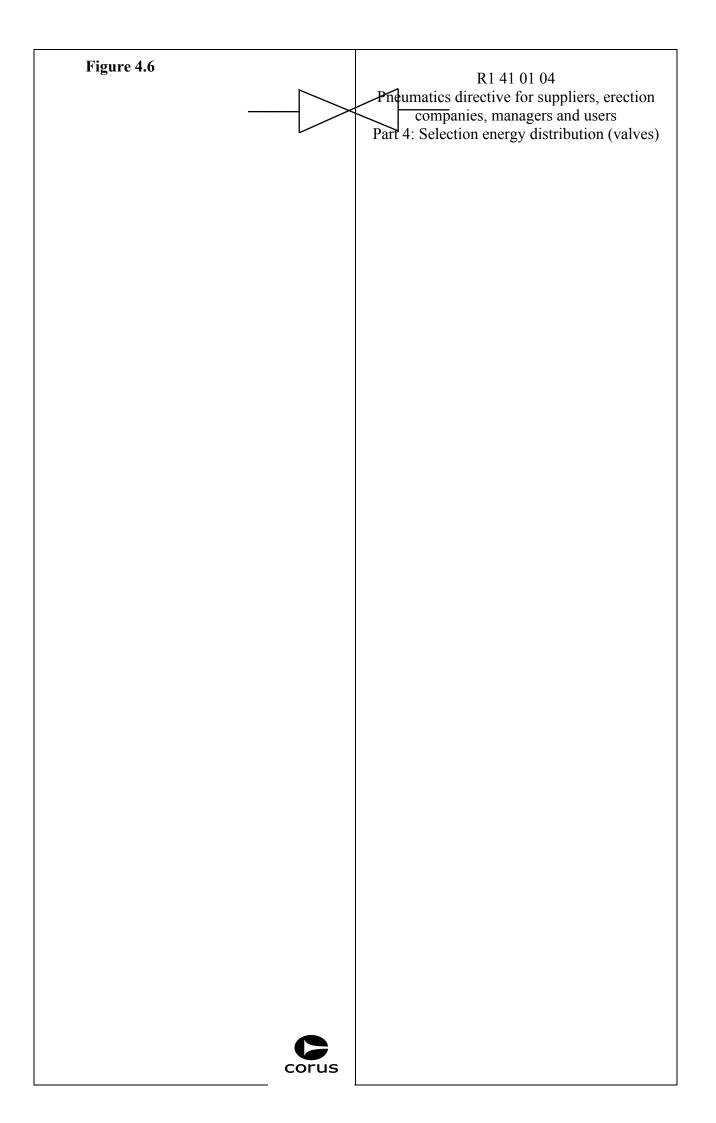
R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)

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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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4.7.	Shut off valves / ball valve	s PN 16	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	c	corus	

4.7.1.	Ball valves with male thread ends	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	



	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Scheme 4.16	
Scheme 4.10	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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DN	Conne	ction D	Building length according
		compani	rective for suppliers, erection es, managers and users n energy distribution (valves)
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DIN IS	O 228/1	R1 41 01 04 M3
	comp	directive for suppliers, erection anies, managers and users ction energy distribution (valves)
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6	G 1/4	4" 50
		R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Companies, managers and users
		Part 4: Selection energy distribution (valves)
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	10	G 3/	8" 60
	10	1 4 3/	R1 41 01 04
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			companies, managers and users Part 4: Selection energy distribution (valves)
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		companies, managers and users	
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		Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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			Part 4: Selection energy distribution (valves)
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	32	G 1	1/4" 110 R1 41 01 04
			R1 41 01 04
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			companies, managers and users
			Companies, managers and users
			Part 4: Selection energy distribution (valves)
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		corus	

	40	G 1	1/2" 120
	10		1/2" 120 R1 41 01 04
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			Pneumatics directive for suppliers, erection
			companies, managers and users
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			Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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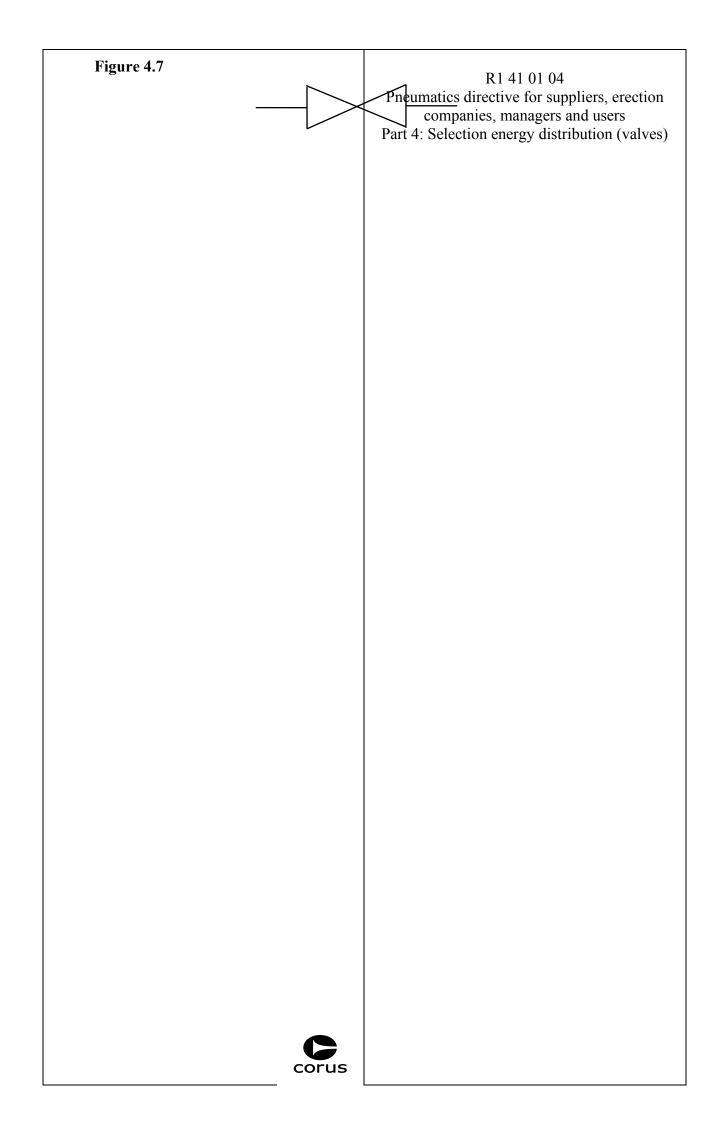
Material:	
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	companies, managers and users Part 4: Selection energy distribution (valves)
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Housing: Messing, nickled	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	rait 4. Selection energy distribution (varves)
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corus	

Ball: Messing, chromed	
Ban. Messing, Chromed	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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Seal: Teflon, Perbunan.	
Sear. Terion, Ferbunan.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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4.7.2.	Ball valves for flange mounting	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	



	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.17	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Tare 1. Selection energy distribution (varves)
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	T 11 1 4 1 7 77 79 79 79 79 79 79 79 79 79 79 79 7
DN	Building length according DIN 3202 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)	<u> </u>	
Pheumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)		R1 41 01 04 <sup>Shape</sup>
		Pneumatics directive for suppliers, erection companies, managers and users
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40		140	   R1 41 01	F4
		Pneumati con Part 4: Sel	cs directive for	suppliers, erection ers and users listribution (valves)
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50	1	50 F4
		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
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		T .	
	65	1	70 R1 41 01 04 F4
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			companies, managers and users
			Part 4: Selection energy distribution (valves)
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		Pneumatics directive for suppliers, erection companies, managers and users
		Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Material:	
iviaiciiai.	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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Body: C22/GS-C25 according NEN-EN 1	0083-196 R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	rait 4. Selection energy distribution (varves)
corus	

Ball: X5CrNiMo 17-12-2 (AISI 316) acco	rding NEN-EN 10088 R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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C I I II DEFE	
Seals: ball-PTFE, spindle-FPM.	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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Construction	
Construction:	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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Floating ball	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Tart 4. Selection energy distribution (varves)
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Corus	

90° shift with indicator	
70 Sinit with indicator	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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including handle	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users  Part 4: Selection energy distribution (valves)
	Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Flanges drilled according DIN 2501	
	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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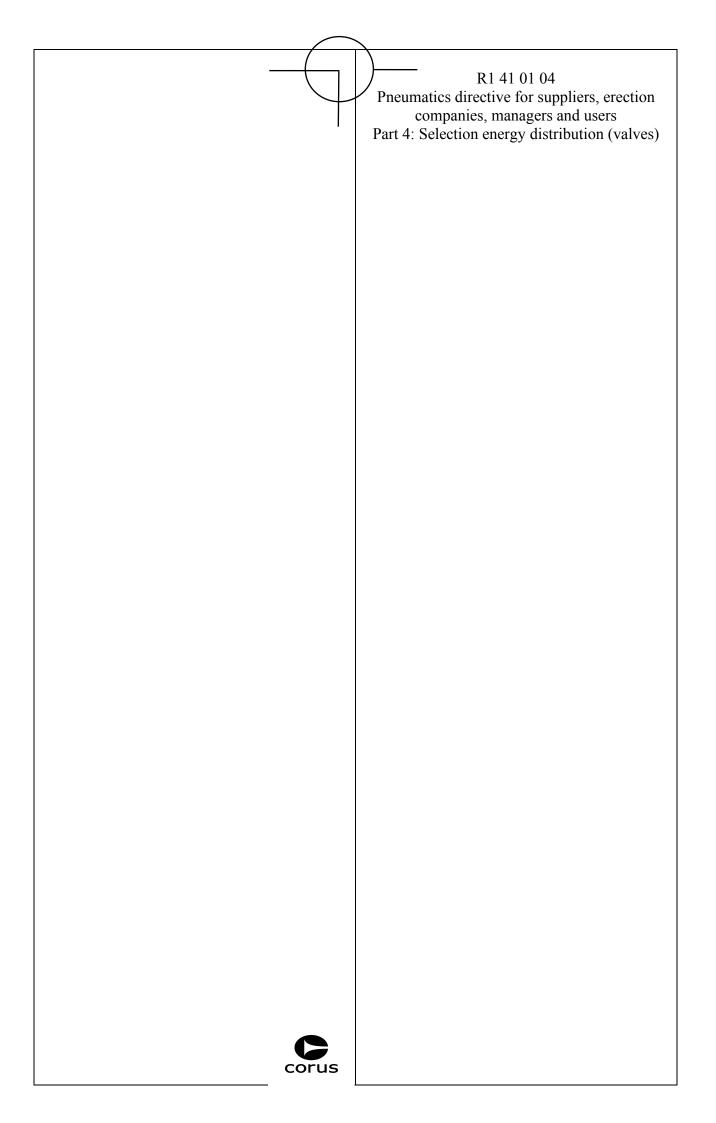
Building length according DIN 3202 F4/F5	
Dantaing longin according Diff 3202 1 4/15	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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Testing according DIN 3230, Teil 5 en 6	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Marking according EN 10	
Marking according EN 19.	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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4.7.3.	Three-way ball valves, male threa	ded	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Figure 4.8	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

Scheme 4.18	
Scheme 4.16	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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Dimensions in man	
Dimensions in mm	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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	DN	Connection D	DIN ISO 228/1	R1 41 Building length L
			Pneumatics d	irective for suppliers, erection
			compan	ies, managers and users on energy distribution (valves)
			Tart 4. Beleeti	on energy distribution (varves)
		corus		

6	G 1/4	"	82 R1 41 01 04
		compani	rective for suppliers, erection ies, managers and users on energy distribution (valves)
	corus		

10	G 3/	8" 02
10	G 3/	8"   R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
		rait is detection energy distribution (varves)
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	corus	

16	G 1/	0" 112
10	J G 1/	K1 41 01 04
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		companies, managers and users
		Part 4: Selection energy distribution (valves)
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	corus	

20	G 3/	4"   R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
	corus	

25	G 1'	R1 41 01 04
		Pneumatics directive for suppliers, erection
		companies, managers and users
		Part 4: Selection energy distribution (valves)
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	32	G 1	1/4" 172
			K1 41 01 04
			Pneumatics directive for suppliers, erection
			companies, managers and users
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40	G 1 1	./2" 206 R1 41 01 04
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		companies, managers and users
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<u>Material</u> :	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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Podru Stool CCC	
Body: Steel, GGG	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
	Tart 4. Selection energy distribution (varves)
cor	us

Ball: Stainless steel, brass GGG chromate	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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Seals: ball-Teflon, spindle-Perbunan.	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
corus	

4.8. References		R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	corus	

In this Technical Directive reference is ma	de to
	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users
	Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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NEN 3348 (= ISO 1219-1)	R1 41 01 04
	Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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EN	R1 41 01 04
	Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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10083	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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10088	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
	Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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DIN	R1 41 01 04 Pneumatics directive for suppliers, erection
	companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users
	Part 4: Selection energy distribution (valves)
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3202	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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	companies, managers and users Part 4: Selection energy distribution (valves)
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	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Technical Directive R1 41 01 04E.	R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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4.9. Explanation		R1 41 01 04 Pneumatics directive for suppliers, erection companies, managers and users Part 4: Selection energy distribution (valves)
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Version 1.1:	
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