



R1 42 01 04 Technical Directive

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

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Information on

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<p>4.1. Tanks with a nominal volume of 1000 to</p>	<p>10.000 dm³ for hydraulic systems R1 42 01 04 Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p>
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Tanks (reservoirs) are preferable of the round type. Necessary details for integrating in a
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system are given in this part. Selection criteria see Technical Directive R1 42 01 02,
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paragraph 2.4.

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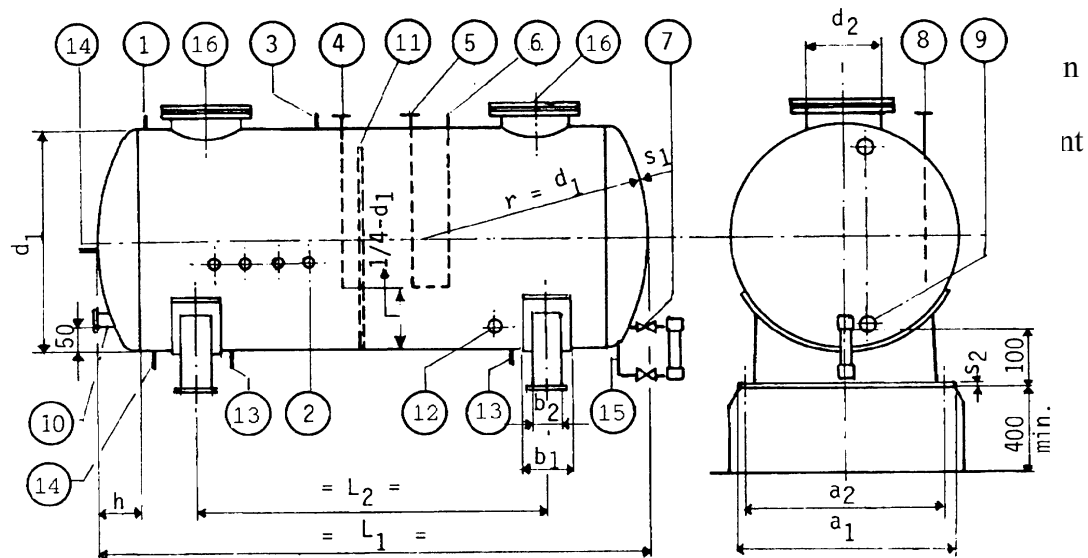
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Figure 4.1

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Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment



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Hydraulics-directive for suppliers, erection
companies, managers and users

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Scheme 4.1

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Hydraulics-directive for suppliers, erection
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Circular tanks according to DIN 6616

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Sizes in mm

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Nom.	Ext.	Total	Depth	Wall	Manhole	Distance	Base	Bracket	Bracket	Distance	plate	Weight
------	------	-------	-------	------	---------	----------	------	---------	---------	----------	-------	--------

~~R1 42 01 04~~

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volume	diam.	length	Spherical	thickness	diameter	between	plate	width	length.	between	thick	in kg.
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dm ³		bottom		brackets	breadth		bracket	ness	
-----------------	--	--------	--	----------	---------	--	---------	------	--

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2000	1830		1100	200	150			8-10	260
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	1250		220			500				950	800		
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3000	2740		1920					355
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4000	2230		1280					628
------	------	--	------	--	--	--	--	-----

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5000

2820

1770

350

300

1200

1050

10-12

740

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7000	1600	3740	260		600	2770					930
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10000	5350			4290					1250
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Explanation numbers fig. 4.1.

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1. Return connection centrifuge 2 x BSP 1 1/2" internal + 2 x BSP 1 1/2" extra (outflow
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opening below oil level).

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2. Temperature control: All tanks 1 x BSP 1/2" internal for capillary tube of temp.
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according to Technical Directive R1 42 01 07, paragraph 7.6. and 2 x BSP 1/2" internal
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for temperature switches according to Technical Directive R1 42 01 07, paragraph
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7.6.2. Distance between temperature connections preferably 100 mm. To be mounted
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below "too low" level. See Figure 4.2.

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Figure 4.2

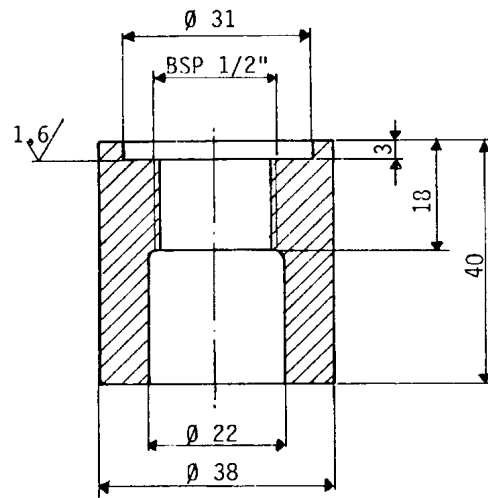
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2 01 04
for suppliers, erection
managers and users
conditioning equipment

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3. Breathing filters: the number of breathing filters depends on the type of system:
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according to paragraph 4.4. For connecting pattern see Figure 4.3.

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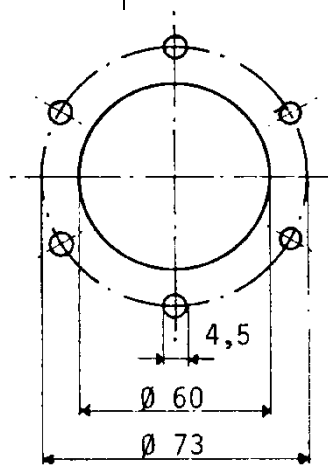
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Figure 4.3

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Hydraulics-directive for suppliers, erection
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rective for suppliers, erection
ies, managers and users
on of conditioning equipment

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4. Return filter cooling unit: $V_{\max} = 2\text{m/sec.}$ (outflow speed in tank max. 1m/sec.).
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5. Return system flow: $V_{\max} = 2\text{m/sec.}$ (outflow speed in tank 1m/sec.),
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6. Drain connection: $V_{\max.} = 0,5\text{m/sec.}$

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7. BSP 3/4" internal for upperside of water indicator according to Technical Directive R1
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42 01 07E, paragraph 7.7.

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8. Filling stub.

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9. Level gauge according to Technical Directive R1 42 01 07, paragraph 7.6.

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10.Suction connection for system: $V_{\max.} = 0,5\text{m/sec.}$

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11.Partition: $V_{\max.} = 0,1\text{m/sec.}$ in opening.

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12.Suction connection for filter and cooling unit: $V_{\max.} = 0,5\text{m/sec}$
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13.Connection for centrifuge BSP 1 1/2" internal with ball cock on the lowest point.
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14.Connection for under the water indicator or BSP 1 1/4" internal.

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15.Manhole. Space under the cover must be left entirely open. Design of the manhole
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according to DIN 6616 with non-protruding partition.

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4.2. High pressure filters

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High pressure filters will be used mainly at the supply connection of pumps.
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No bypass valve is allowed. For criteria, see Technical Directive R1 42 01 02,
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paragraph 2.5.

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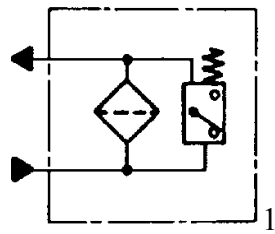
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4.2.1. *Symbols*

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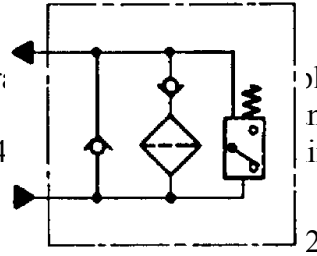
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1

Hydra
Part 4



2

oliers, erection
nd users
ing equipment

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Symbol 1: Flange mounted filter with pressure resistant element and visual/-electrical
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indicator.

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Symbol 2: Idem, with reverse flow and visual/-electrical indicator.

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4.2.2. *Filtrating 3 μ absolute, element pressure resistant*

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Manufacturer: Pall

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Element pressure resistant up to $\Delta p = 210$ bar

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Indicating at

$\Delta p =$

7 bar

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Electrical clogging indicator with plug according to ISO 4400.

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Scheme 4.2


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Type filter (complete)	Type element	Q-max R1 42 01 04	Symbol	PN
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			1/min, R1 42 01 04	
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+option MT + option PT

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+dual indicat. Block

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(=flangemounted)

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+option MT + option PT				
------------------------	--	--	--	--

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(=topmounted)


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+option MT + option PT				
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(=flangemounted)					
		<div data-bbox="1090 138 1249 172">R1 42 01 04</div> <div data-bbox="887 174 1453 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</div> <div data-bbox="700 2063 813 2143"> corus</div>			

(L for S is EPE-connection)

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Manufacturer: HYDAC

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Element pressure resistant up to $\Delta p=210$ bar

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Indicating at

$\Delta p=$

8 bar

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Electrical clogging indicator with plug according ISO 4400

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Scheme 4.3


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Type filter (complete)	Type element	Q-max.	Symbol	PN
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DF BH/HC 110 QE3 D1.X	0110 D 003 BH3HC	50	1 R1 42 01 04 ³¹⁵	
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(=flange mounted)

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companies, managers and users
Part 4: Selection of conditioning equipment

DF BH/HC 140 P 3 D1.X	0140 D 003 BH3HC	50	R1 42 01 04	315
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

/VD8 LE.0/-30C-OE

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

(= top mounted)

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

DF BH/HC 500 QE3 D1.X	0500 D 003 BH3HC	250	R1 42 01 04 ³¹⁵	
		<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>		

VD8 LE.0/-30C-OE

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

(=flange mounted)

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.2.3. *Filtrating 15 μ absolute, element pressure resistant*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Pall

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Element pressure resistant up to $\Delta p = 210$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating at

$\Delta p =$

7 bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Electrical clogging indicator with plug according to ISO 4400, plus optical indicator.
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filter is flange mounted.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.4

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-max R142 01 04	Symbol	PN
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

HH-9681-S-20-DTSW-9

HC-9601-FDT-8H

300

1

250

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

HH-9681-S-20-DTSW-9	HC-9601-FDT-8H	300	R1 42 01 04 ²	250
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

(reverse flow)				
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT				
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT				
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

(reverse flow)

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

(L for S is EPE-aansluiting)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.2.4. *Filtrating 20 µ absolute, element pressure resistant*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: EPE

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Element pressure resistant up to $\Delta p = 330$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating at

$\Delta p = 4,2 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Supply including indicator (heavy duty)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filter is flange mounted.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Scheme 4.5

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type filter	Type element		Q-max. R1	Symbol 42 01 04	PN	EPE
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment



(complete)		1/min.	R1 42 01 04	draw
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

250FE360H20SL-B00-

2.360H20SL-B00-0-P

300

R1 42 01 04

250

13905-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

| 00X4.2-00P00 SO |

| R1 42 01 04 |

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

250FE360H20SL-B00-	2.360H20SL-B00-0-P	300	R1 42 01 04	250	13906-4
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Hydraulics-directive for suppliers, erection companies, managers and users

Part 4: Selection of conditioning equipment



00X4.2-00P0X SO					
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Manufacturer: HYDAC

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Element pressure resistant up to $\Delta p = 210$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating at

$\Delta p =$

8 bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Elektrical clogging indicator with plug according ISO 4400, plus optical indicator.
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filter is flange mounted.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Scheme 4.6

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q	Symbol	PN
		81 42 01 04		

Hydraulics-directive for suppliers, erection companies, managers and users

Part 4: Selection of conditioning equipment



			max. R1 42 01 04	
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

			1/min	RT 42.01.04	
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Hydraulics-directive for suppliers, erection companies, managers and users
Part 4: Selection of conditioning equipment



DFBH/HC330QE20D1.X	0330 D	020 BH3HC	300	1	350
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

/VD 8 LE.0/-30C-OE

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

DFBH/HC330QE20D1.X	0330 D	020 BH3HC	300	2	350
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RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

DFBH/HC990QE20D1.X	0990 D	020 BH3HC	450	1	350
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

/VD 8 LE.0/-30C-OE

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

DFBH/HC990QE20D1.X	0990 D	020 BH3HC	450	2	350
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.3. Low pressure filters

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.3.1. *Symbols*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Low pressure filters are mainly applied as return filters, bypass filters and/or boost pressure
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

filters, and equipped with a bypass valve. For criteria see Technical Directive R1 42 01 02,
R1 42 01 04
Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

paragraph 2.5.

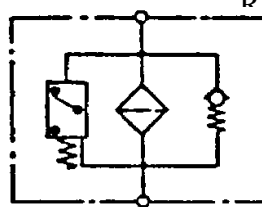
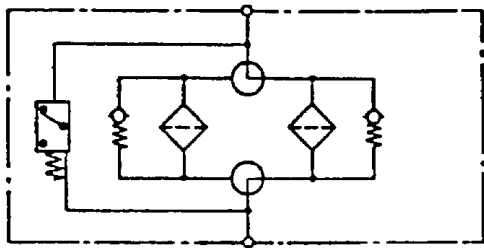
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment



P 1 42 01 04

ve for suppliers, erection
managers and users
f conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Symbol 1: double inline filter

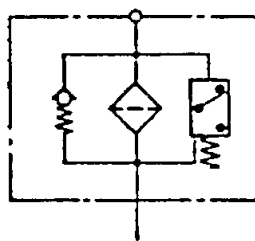
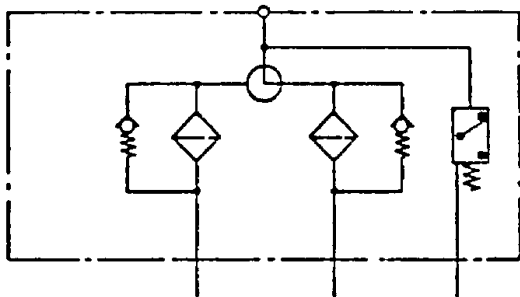
Symbol 2: single inline filter
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment



R1 42 01 04

ve for suppliers, erection
managers and users
f conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Symbol 3: double tanktop filter

Symbol 4: single tanktop filter
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filters are always equipped with an optical and electrical clogging indicator.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

The electrical clogging indicator indicates above 30° C.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.3.2. *Filtrating 3 μ*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer Pall

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Bypass: $\Delta p > 1,5 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating: $\Delta p > 1,1 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Electrical clogging indicator with plug according to ISO 4400.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Scheme 4.7

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-max. 1/mip	Symbol	PN	DN
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment



HH8520-F32-KPSA-1	HC8500FKP8H	100	R142 01 04	10	SAE2"
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+dual indicationblock

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT


RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+dual indicationblock					
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT					
		<div data-bbox="1090 138 1249 172">R1 42 01 04</div> <div data-bbox="887 174 1453 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</div> <div data-bbox="700 2063 813 2143"> corus</div>			

HH8420-F48-KPUA-1	HC8400FKP-16H	400	R142 01 04	10	SAE3"
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT					
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Bypass: $\Delta p > 3,5 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating: $\Delta p > 2,5 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Scheme 4.8

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-max. 1/min. R1	Symbol 420104	PN	DN
		Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment			

HH7500-C24-KPS9-1

HC7500SKP-8H

150

R142 01 04

14

G 1½"

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+dual indicationblock

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT

RT 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+dual indicationblock

(2 elements parallel)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT					
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

HH8300-F40-KPUB-91	HC8300FKP-16H	500	R142 01 04 ²	25	SAE
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT					2½"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: HYDAC

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Element pressure resistant up to $\Delta p=3$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating at

$\Delta p=2$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Electrical clogging indicator with plug according ISO 4400

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Tabel 4.9


R1 42 01 04


Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04


Hydraulics-directive for suppliers, erection
companies, managers and users


Part 4: Selection of conditioning equipment


Type filter (complete)	Type element	Q-max. l/min.	Symbol	PN	Connect.
				R1420104	
<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>					
					


RF BN/HC 330 DL3D1.X	0330 R 003 BN3HC	100	4	25	SAE2"
		<div data-bbox="1011 141 1174 170" data-label="Text">R1 42 01 04</div> <div data-bbox="810 174 1378 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="624 2058 735 2141" data-label="Page-Footer">  corus </div>			

/VR 2 LE.0/-30C-OE									
					R1 42 01 04				
					Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment				

RF BN/HC 660 DN3D1.X	0660 R 003 BN3HC	200	4	25	SAE3"
		<div data-bbox="1011 141 1171 170" data-label="Text"> <p>RI 42 01 04</p> </div> <div data-bbox="810 176 1374 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="624 2063 735 2141" data-label="Page-Footer">  <p>corus</p> </div>			

/VR 2 LE.0/-30C-OE				R1 42 01 04
			<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>	
				

RF BN/HC 950 DO3D1.X	0950 R 003 BN3HC	400	4	25	SAE3½"
		<div data-bbox="1013 141 1173 174" data-label="Text"> <p>RI 42 01 04</p> </div> <div data-bbox="810 176 1374 288" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="625 2063 735 2145" data-label="Page-Footer">  <p>corus</p> </div>			

/VR 2 LE.0/-30C-OE				R1 42 01 04
			<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>	
			 corus	

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Tabel 4.10


R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment


R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users


Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-max. l/min.	Symbol	PN	Connect
				R 420104	
<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>					
					

RFL BN/HC851DQ3D1.X	0850 R 003 BN3HC	300	2	25	DIN80
		<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>			

/VD 2 LE.0/-30C-OE					
			<div data-bbox="1075 136 1252 174" data-label="Text">R1 42 01 04</div> <div data-bbox="877 172 1466 291" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="694 2054 815 2143" data-label="Page-Footer">  corus </div>		

NF BN/HC 1310DP3D2.X	1300 R 003 BN3HC	500	2	25	SAE4"
		R1 42 01 04			
		Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment			

/VD 2 LE.0/-30C=OE					
			<div data-bbox="1075 136 1252 174">R1 42 01 04</div> <div data-bbox="877 172 1465 291"> <p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="694 2054 817 2143">  corus </div>		

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.3.3. *Filtrating 10 μ*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Pall

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Bypass: $\Delta p > 3,4 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating: $\Delta p > 2,5 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.11

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-max. l/min.	Symbol	PN	DN
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Hydraulics-directive for suppliers, erection companies, managers and users
Part 4: Selection of conditioning equipment

+ option MT + option PT				R1 42 01 04		
			<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>			

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

With larger flows these filters can be set parallel. See Technical Directive
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 02, paragraph 2.5.3.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: HYDAC

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Element pressure resistant up to $\Delta p=3$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating at

$\Delta p=2$ bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Electrical clogging indicator with plug according ISO 4400

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

The filters are provided with:

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

- venting screws at the cover of all inline filters;

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

- the housing of all inline filters with a drain with plug (bottom side);
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

- pressure leveling for all double filters (except size 331);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

- ordering numbers excluding counter flanges, else add GA to the number;
R1 42 01 04
Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

- ordering numbers of filter type 130 and above are with feet:
R1 42 01 04
Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

- ordering numbers with KS have slewing bolts with wing nuts for cover mounting;
R1 42 01 04
Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

- ordering numbers with DH have a cover lift (type 2500 and above),
R1 42 01 04


Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Tabel 4.12

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type filter (compleet)	Type element	Q-max.	Symbol	PN	Aansl
<div>R1 42 01 04</div> <div>Hydraulics-directive for suppliers, erection companies, managers and users</div> <div>Part 4: Selection of conditioning equipment</div>					
					

RFLD BN/HC331DAL10D1.X/VD2 LE.0/-30C-OE	0330	R 010 BN3HC	125	1	25	SAE2"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC661DAS10D1.X/VD2 LE.0/-30C-OE	0660	R 010 BN3HC	250	1	25	SAE/DIN80
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC951DAT10D1.X/VD2 LE.0/-30C-OE	0950	R 010 BN3HC	400	1	25	SAE/DIN100
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC1300CAT10D1.X/VD2 LE.0/-30C-OE+KS	1300	R 010 BN3HC	600	1	16	SAE/DIN100
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC2500CAU10D1.X/VD2 LE.0/-30C-OE+KS+DH	0850	R 010 BN3HC	1000	1	16	DIN125
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC4020CAU10D1.X/VD2 LE.0/-30C-OE+KS+DH	1700	R 010 BN3HC	1600	1	16	DIN125
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFLD BN/HC5200CBW10D1.X/VD2 LE.0/-30C-OE+KS+DH*	1300	R 010 BN3HC	2400	1	16	DIN200
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC661 DQ 10D1.X/VD 2 LE.0/-30C-OE	0660 R 010 BN3HC	250	2	25	DIN80
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC851 DQ 10D1.X/VD 2 LE.0/-30C-OE	0850	R 010 BN3HC	400	2	25	DIN80
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC1300CR10D1.X/VD 2 LE.0/-30C-OE+KS	1300	R 010 BN3HC	600	2	16	DIN100
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC1320CR10D1.X/VD 2 LE.0/-30C-OE+KS	2600	R 010 BN3HC	1000	2	16	DIN100
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC2520CU10D1.X/VD 2 LE.0/-30C-OE+KS+DH	1700	R 010 BN3HC	1600	2	16	DIN125
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RFL BN/HC5200CW10D1.X/VD 2 LE.0/-30C-OE+KS+DH	1300	R 010 BN3HC	2400	2	16	DIN200
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RDF BN/HC331 DAL 10D1.X/VR 2 LE.0/-30C-OE	0330	R 010 BN3HC	125	3	25	SAE2"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RDF BN/HC661 DAN 10D1.X/VR 2 LE.0/-30C-OE	0660	R 010 BN3HC	250	3	25	SAE3"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RDF BN/HC951 DAO 10D1.X/VR 2 LE.0/-30C-OE	0950	R 010 BN3HC	400	3	25	SAE3½"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RDF BN/HC1301 DAP 10D1.X/VR 2 LE.0/-30C-OE	1300	R 010 BN3HC	600	3	25	SAE4"
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R1 42 01 04


Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RF BN/HC 330DL10D1.X/VR 2 LE.0/-30C-OE	0330 R 010 BN3HC	125	4	25	SAE2"
		<div data-bbox="1075 136 1251 172" data-label="Text">R1 42 01 04</div> <div data-bbox="877 172 1465 288" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>			
<div data-bbox="695 2056 815 2145" data-label="Page-Footer">  corus </div>					

RF BN/HC 660DN10D1.X/VR 2 LE.0/-30C-OE	0660	R 010 BN3HC	250	4	25	SAE3"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

RF BN/HC 950DO10D1.X/VR 2 LE.0/-30C-OE	0950	R 010 BN3HC	400	4	25	SAE3½"
		<div data-bbox="1075 136 1252 174" data-label="Text">R1 42 01 04</div> <div data-bbox="877 172 1466 291" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div> <div data-bbox="695 2054 815 2143" data-label="Page-Footer">  corus </div>				

RF BN/HC 1300DP10D1.X/VR 2 LE.0/-30C-OE	1300	R 010 BN3HC	600	4	25	SAE4"
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

*this filter has no ball valve, but a segment valve.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Manufacturer EPE

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Bypass: $\Delta p > 2,0 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Indicating: $\Delta p > 1,5 \text{ bar}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Tolerance for both: 5%

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

The filters are provided with:

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

venting screws at the covers of all inline filters (E);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

the housing of all inline filters with a drain with

plug (bottom side):

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

counter flanges for the ports (FG);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

pressure leveling for all double filters (A);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

heavy duty type optical/electrical clogging indicator with make and break contact (so called RI 42 01 04)

Hydraulics-directive for suppliers, erection companies, managers and users

Part 4: Selection of conditioning equipment

Schule ausf.) (Y);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

— slewing bolts with wing nuts for cover mounting;

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

feet for the single and double inline filters, types typen 1801, 2201, 3201 and 7201 (partly EPE
RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

standard);

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

so called linear design for double filters, types 2201 and 7201; which means separating valves
R1 42 01 04
Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

and check valves between the housings;

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

cover lift for single and double filters, types 2201, 3201 and 7201.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

<p>Note: for water glycol or HWBF media, housing and element are to be ordered with 'chemical</p>	<p>R1 42 01 04 Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p>
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nickle plated' and 'synthetic shells at the switch over valves'.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Scheme 4.13

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type filter (complete)	Type element	Q-	Symbol	PN	DN	EPE
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

			max.	R1 42 01	04		draw
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

		1/min.	R1 42 01 04		
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Hydraulics-directive for suppliers, erection
 companies, managers and users
 Part 4: Selection of conditioning equipment

25D361H10SL-A00-14X-N0P0AEJ SO

1.361S10SL-A00-0-P

125

R1¹42 01²⁵04

50

13907-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

25D561H10SL-A00-14X-N0P0AEJ SO	1.561H10SL-A00-0-P	250	R1 ¹ 42 01	04 ²⁵	80	13908-4
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Hydraulics-directive for suppliers, erection
 companies, managers and users
 Part 4: Selection of conditioning equipment

25D901H10SL-A00-14X-N0P0AEJ SO	1.901H10SL-A00-0-P	400	R1 ¹ 42 01	04 ²⁵	80	13909-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

25D1801H10SL-A00-14X-N0P0AEJX SO	1.1801H10SL-A00-0-P	600	R1 ¹ 42 01	04 ²⁵	100	13910-4
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Hydraulics-directive for suppliers, erection
 companies, managers and users
 Part 4: Selection of conditioning equipment

16D2201H10SL-A00-14X-K0P0AEMJ SO	1.561H10SL-A00-0-P	1000	R1 ¹ 42 01	04 ¹⁶	125	13911-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16D2201/3201H10SL-A00-14X-

1.901H10SL-A00-0-P

1600

R1¹42 01 04

125

13912-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

K0P0AEMJ SO

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16D7201H10SL-A00-14X-K0P0AEMJ SO	1.1801H10SL-A00-0-P	2400	R1 ¹ 42 01	04 ¹⁶	200	13913-4A
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Hydraulics-directive for suppliers, erection
 companies, managers and users
 Part 4: Selection of conditioning equipment

25L361H10SL-A00-14X-N0P0EJ SO

1.361H10SL-A00-0-P

125

R1²42 01 04²⁵

50

13914-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

25L561H10SL-A00-14X-N0P0EJ SO	1.561H10SL-A00-0-P	250	R1 ² 42 01	04 ²⁵	80	13915-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

25L901H10SL-A00-14X-N0P0EJ SO	1.901H10SL-A00-0-P	400	R1 ² 42 01	04 ²⁵	80	13916-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

25L801H10SL-A00-14X-N0P0EJ SO	1.1801H10SL-A00-0-P	600	R1 ² 42 01	04 ²⁵	100	13917-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16L2201H10SL-A00-14X-K0P0EJM SO	1.561H10SL-A00-0-P	1000	R1 ² 42 01	04	125	13918-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16L3201H10SL-A00-14X-K0P0EJM SO

1.901H10SL-A00-0-P

1600

R1²42 01 04


125

13919-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16L7201H10SL-A00-14X-K0P0EJM SO	1.1801H10SL-A00-0-P	2400	R1 ² 42 01	04	200	13920-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16DR361H10SL-A00-14X-C0P0AJ SO	1.361H10SL-A00-0-P	125	R1 ³ 42 01 ¹⁶ 04	50/R2"	13921-4
<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>					
					

16DR561H10SL-A00-14X-C0P0AJ SO	1.561H10SL-A00-0-P	250	R1 ³ 42 01	04	80/R3"	13922-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16DR1801H10SL-A00-14X-N0P0AJ SO	1.1801H10SL-A00-0-P	600	R1 ³ 42 01	04 ¹⁶	100	13924-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16RL361H10SL-A00-14X-C0P0J SO

1.361H10SL-A00-0-P

125

R1⁴42 01¹⁶04

50/R2"

13925-4

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16RL561H10SL-A00-14X-C0P0J SO	1.561H10SL-A00-0-P	250	R1 ⁴ 42 01	04	80/R3"	13926-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

16RL901H10SL-A00-14X-C0P0J SO	1.901H10SL-A00-0-P	400	R1 ⁴ 42 01	04	80/R3"	13927-4
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Hydraulics-directive for suppliers, erection
 companies, managers and users
 Part 4: Selection of conditioning equipment

16RL1801H10SL-A00-14X-N0P0J SO	1.1801H10SL-A00-0-P	600	R1 ⁴ 42 01	04	100	13928-4
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.4. Breathers for tanks and accessories

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

See for criteria Technical Directive R1 42	01 02, paragraph 2.5 R1 42 01 04 Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment
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Breathers combined with filler caps only for small systems of minor importance.
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.4.1. *Breather/filler cap*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Figure 4.4

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filtrating 10 - 15 μ .

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Only for small systems of secondary importance.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Manufacturer UCC

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type: UC-AB-1163-10.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Other makes are allowed if equal and interchangeable.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.4.2. *Breather*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Figure 4.5

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Filtrating 1 μ.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Manufacturer Pall

Hydac

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type: HC7500-SKS-4HB

0180 MA 003 BN
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Filtrerrating: 3 μ

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Pall

Hydac

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type: HC 0293 SEE 5

0160 MA 010 BN
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Material: plastic (Polyamide)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Indicator: HC 0293 D004.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.4.3. *Air dryer*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

In a humid environment an air dryer is to be installed (always combined with a breather).
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

A filler cap on the tank is in this case absolutely not allowed. Breather between tank and
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

dryer (not vice versa).

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

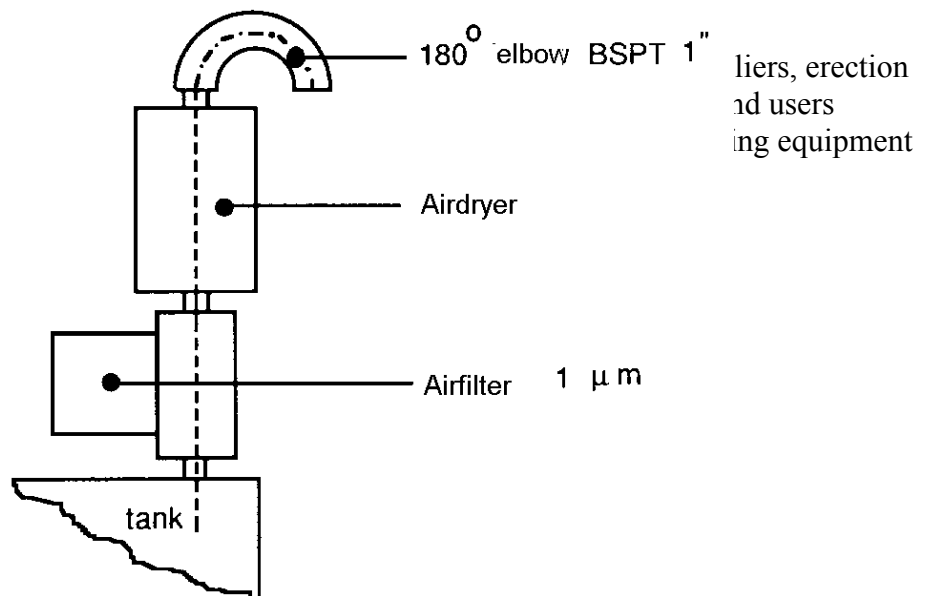
Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Figure 4.6

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment



R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Silica Gel

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type: 428/145 DTR-CP

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Connection:2 x BSPT 1" external.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

To combine with filter:

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Pall

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type: HH 7500-C16-KS-RWB (element HC 7500 SKS-4H)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Connection: 2 x BSP 1" internal.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: DES-CASE

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type: DC4

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Connection: 1 5/16" external

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Material: plastic

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Adapter: DC10 1 x NPT 1" external.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

This type is inclusive 3 μ airfilter.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Before commissioning, the silica gel cartridge holes must be made free for air flow!

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.5. Coolers and accessories

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Coolers will be used for the temperature control, plate coolers are preferred. For
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

prescriptions see Technical Directive R1 42 01 02, paragraph 2.6.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.5.1. *Watercoolers*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Manufacturer: Alfa-Laval

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Types: M6-MFM

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

This cooler type has many variations by means of the number of plates in use.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

General specifications of the coolers

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

– Material of the various parts:

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

* cooling plates of titanium

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

* frame plate, pressure plate and tension rods of steel

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

* seals of NBR with clip-on mounting

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

– Maximum working pressure 10 bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

– Test pressure 13 bar

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

– Connections type M6 flange DN 50 DIN 2501 with rubber lining

RI 4201 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

– Mounting of tie rods on required lengthsize A of the plate package,
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

$A = 3.5 \times n$ (n = number of plates)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

– Normal used water is "Lekwater", with a max. temperature of 25 °C
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

– $Q_{\text{water}} = \frac{1}{2} \cdot Q_{\text{oil}}$

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

– Counterflow will be used

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

– Oil flow from S1 to S2

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

– Water flow from S3 to S4.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Ordering specifications of the coolers

R1 42 01 04


Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.14


R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Q oil L/min		Ordering specification RI 42 01 04
		<p>Hydraulics-directive for suppliers, erection companies, managers and users</p> <p>Part 4: Selection of conditioning equipment</p>

100	M6-MFM-DIN-SPOOL/Ti-0,5/NBR-C/12M R1 42 01 04
	<p data-bbox="887 174 1452 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> <div data-bbox="700 2058 813 2143"> corus</div>


Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment


300	M6-MFM-DIN-SPOOL/Ti-0,5/NBR-C/30M R1 42 01 04
	<p data-bbox="887 174 1452 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> <div data-bbox="700 2058 813 2143"> corus</div>

400

M6-MFM-DIN-SPOOL/Ti-0,5/NBR-C/40M
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

500	M6-MFM-DIN-SPOOL/Ti-0,5/NBR-C/50M R1 42 01 04
	<p data-bbox="887 174 1452 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> <div data-bbox="699 2056 813 2145"> corus</div>

600	M6-MFM-DIN-SPOOL/Ti-0,5/NBR-C/60M R1 42 01 04
	<p data-bbox="810 174 1374 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> <div data-bbox="624 2058 735 2141"> corus</div>

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Specific cooler data

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.15

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Quantity	Unit		Cooler RI 42 01 04
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Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

	Q-oil		l/min		100		200		300		400		500		600
											R1 42 01 04				
											Hydraulics-directive for suppliers, erection companies, managers and users				
											Part 4: Selection of conditioning equipment				

Q-water	l/min	50	100	150	200	250	300
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Cooling capacity	KW	17	34	51	68	85	103
			<div data-bbox="1093 141 1249 174">R1 42 01 04</div> <div data-bbox="887 174 1453 286"> Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment </div>				

Pressure dropoil	bar	0,4	0,5	0,5	0,6	0,6	0,6
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R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Pressure dropwater	bar	0,1	0,1	0,1	0,1	0,1
--------------------	-----	-----	-----	-----	-----	-----

Hydraulics-directive for suppliers, erection companies, managers and users


Part 4: Selection of conditioning equipment



Cooling surface	m ²	1,40	2,52	3,36	5,32	6,72	8,12
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RI 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Number of plates	stuks	12	20	30	40	50	60
			<div data-bbox="1093 141 1249 174" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="887 174 1453 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>				
			<div data-bbox="700 2063 813 2145" data-label="Page-Footer">  <p>corus</p> </div>				

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Coolers dimensions

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

See documentation of the manufacturer.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.5.2. *Cooling water regulators*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Herion, PN 10

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Temperature range: +20 °C tot +60 °C

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Immersion tube: R ½", type 0574758.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users


Part 4: Selection of conditioning equipment

Scheme 4.16


R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type	Connection R"	Building length mm	Q water L/min*)
		R1 42 01 04	
		Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment	



01774-00	1/2"	55	25
		<div data-bbox="1088 136 1248 170" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="887 174 1453 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>	

01780-00	1"	95	150
		<div data-bbox="1011 138 1171 170">R1 42 01 04</div> <div data-bbox="810 174 1375 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</div>	
		<div data-bbox="625 2060 737 2145"> corus</div>	

01781-00	1 1/4"	132	350
		<div data-bbox="1088 136 1248 170" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="887 174 1453 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>	

01783-00	2"	160	600
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~~R1 42 01 04~~

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Danfoss, PN 10

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Temperature range: +25 °C tot +65 °C

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Immersion tube: R ½", type 3 N0050.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users


Part 4: Selection of conditioning equipment

Scheme 4.17

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Type	Connection R"	Building length mm	Q water L/min*)
		R1 42 01 04 Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment	

AVTA15-3N2162	1/2"	72	25
R1 42 01 04			
Hydraulics-directive for suppliers, erection companies, managers and users			
Part 4: Selection of conditioning equipment			
			

AVTA20-3N2162


3/4"

90

50

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

AVTA25-3N2162	1"	95	70
		<div data-bbox="1090 141 1249 170">R1 42 01 04</div> <div data-bbox="887 176 1452 286">Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</div>	
		<div data-bbox="700 2063 813 2143"> corus</div>	

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

*) Estimated value with $Q_{\text{water}} (= 0,5 Q_{\text{oil}})$ and $\Delta P_{\text{water}} 2 \text{ bar}$
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.5.3. *Water consumption meters*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Pollux

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Working pressure: PN 16

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Measuringwork: Dry running device

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.18

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Q-Nom. U min	Connection. BSP	ext.	L-Total mm R1 42 01 04	Type
	Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment			

45

3/4"

288

M Qn 1,5 (XTU)

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

60	1"	378	M Qn 2,5 (XTU)
		<div data-bbox="1090 141 1249 174" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="887 174 1453 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>	

100	1 1/4"	378	M Qn 6 (XTU)
		<div data-bbox="1013 141 1173 174" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="810 174 1377 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>	

170	1 1/2"	438	M Qn 10 (XTU)
		<div data-bbox="1090 141 1249 174" data-label="Text"> <p>R1 42 01 04</p> </div> <div data-bbox="887 174 1453 286" data-label="Text"> <p>Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment</p> </div>	

For dimensions see the documentation of the manufacturer

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Note: These meters may be mounted exclusively **horizontal**.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Cooling water valves and filters: see Technical Directive R1 42 01 08,
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

paragraph 8.7.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

4.5.4. *Electrically operated 2/2-valve (water)*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacturer: Herion/Buschjost

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Type: 85.000

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Material: Messing + NBR

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Voltage: 110 V 50 HZ/picker DIN 43650

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Position: normal closed

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Attention! Rectifier in plug.

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Scheme 4.19

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

Connection BSP		Length	Ordering number
		R1 42 01 04	
		Hydraulics-directive for suppliers, erection companies, managers and users Part 4: Selection of conditioning equipment	

G 1/2"

67

85.002.00.8304 110V-50 Hz

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.5.5. *Temperature switch*

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

Manufacture and type number: see Technical Directive R1 42 01 07, paragraph 7.5.
R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

4.6. References

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

In this Technical Directive reference is made to

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users

Part 4: Selection of conditioning equipment

DIN

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

2501

R1 42 01 04

Hydraulics-directive for suppliers, erection
companies, managers and users
Part 4: Selection of conditioning equipment

6616

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43650

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ISO 4400

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Technical Directives

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4.7. Explanation

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Version 1.0:

R1 42 01 04

Hydraulics-directive for suppliers, erection
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none.

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Version 1.1:

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logo has changed.

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Version 2.0:

R1 42 01 04

Hydraulics-directive for suppliers, erection
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Document completely adapted.

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