

Operating Manual

DELTA CU3

Valve-Net Device Net Control Unit















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Delta CU3 Valve-Net Device**Net** is an APV Trademark "DeviceNet is a trade mark of Open DeviceNet Vendor Association, Inc. ODVA"









8.1 General description

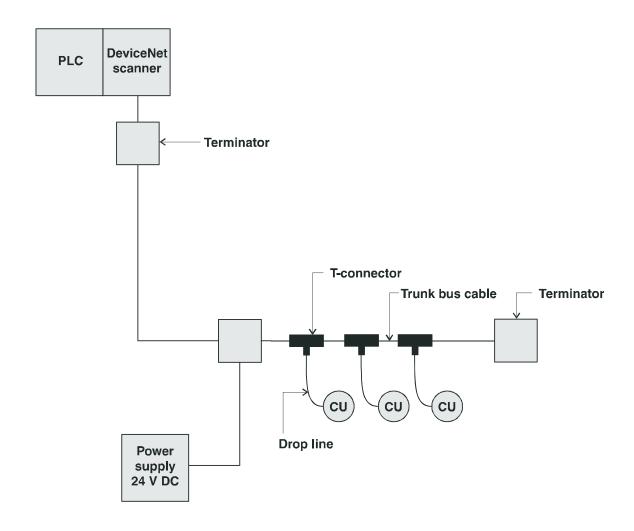
DeviceNet in general

DeviceNet is a low-cost communication link to connect devices/nodes to a network and eliminate expensive hardwiring. DeviceNet provides improved communication between devices as well as important device-level diagnogstics.

DeviceNet is a simple networking solution that reduces costs as well as time to wire and install industrial automation devices, while providing interchangeability of similar components from multiple vendors. DeviceNet is an open network standard.

More information of DeviceNet: WWW.ODVA.ORG

8.1.1Installation principle



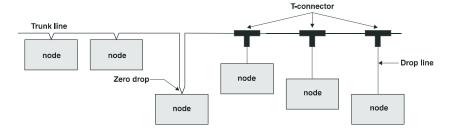






8.2.1 General features of DeviceNet

• Trunk line, drop line configuration



- · Node removal without breaking trunk line
- · Node removal and replacement under power
- Up to 64 addressable nodes
- Signal and DC Power in same cable
- Selectable Data Rates (125K, 250K, 500K)
- Both Sealed and Open-Style connections
- Zero node separation

8.2.2 Speeds, distance and drops

Data	Data Trunk Length		Drop Length			
Rate	(thick cable)	Max drop	Cumulative			
125K	500m <i>(1640 ft)</i>	6m <i>(20 ft)</i>	156m <i>(512 ft)</i>			
250K	250m <i>(820 ft)</i>	6m <i>(20 ft)</i>	78 <i>(</i> 256 ft)			
500K	100m <i>(328 ft)</i>	6m <i>(20 ft)</i>	39m <i>(128 ft)</i>			

Network terminating

Device Net requires a terminating resistor at each end of the trunk:

- 121 ohm
- 1/4 Watt
- 1 % metal film

Terminating resistors should only be installed at the two ends of the trunk line.

For further information please see the DeviceNet Standard.



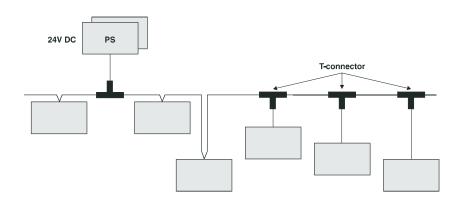
Note:

Thin cable may be used as trunk. Maximum distance is 100 meters, regardless of data rate.





8.2.3 Power and Signal



DeviceNet cable:

Two twisted pair

- Signal pair: low loss, high velocity with foil shield
- Power pair: up to 8A capacity with foil shield
 - NOTE: Class II NEC Code limits current to 4A on any segment
- Overall braid with drain wire

Nodes can be powered direct from bus

Opto-isolation for self powered devices

• e.g. drive, PCL, weigh scale, etc.

Multiple power supplies can be used

• used for additional power or as back-up





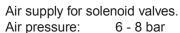


8.2.4 Solenoid Valve

The solenoid valve is equipped with a manual override. The override handle cannot be locked. Two throttling seat valves provide the facility to change the opening and closing speed.

Please note that the seat valve controlling the inlet air must never be completely closed. An air-filter inside the tower protects the solenoid valve.

See also section 8.3.8, 8.3.9 and 8.3.10 for details.



Important see chapter technical data

8.2.5 NOT element

The spring force of the air actuator can be increased by the compressed air by installing a logical NOT element which directs the compressed air to the spring side of the actuator.

For correct positioning. See section 8.5

8.2.6 Adaptor

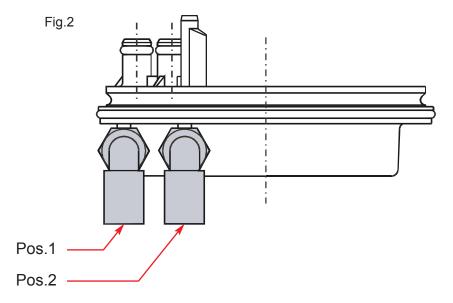
The complete control unit is composed of a control unit top and an adaptor unit. The adaptor unit consists of an adaptor and an actuator screw and these are different from valve to valve. Since the control unit can be installed to different types of valve, different adaptor units are necessary. It is the different types of valve which determine the adaptor unit to be combined with the control unit top.

Section 8.5 shows which adaptor unit is used with which valve.

The adapter shown on figure 2 is fitted with two air connectors for 6x1 mm air hose.

The adapter for DELTA SV/SVS and DELTA DKR valves has an internal air connection.

Two blind plugs are in pos. 1 and pos. 2.







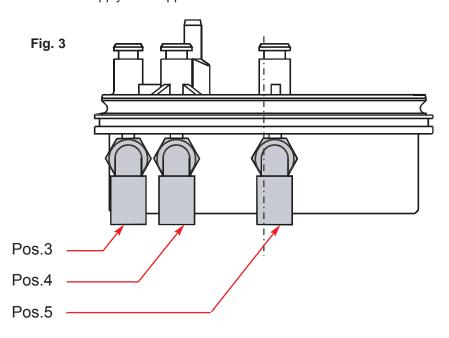




The adapter shown in figure 3 is for the double seat valve DELTA DA3+ and DE3. It is either equipped with one (for DELTA DE3 and DA3+ with one solenoid valve) or three air connectors (for DELTA DA3+ with three solenoids).

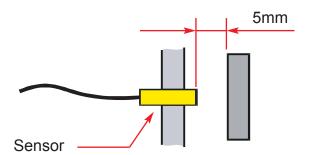
If fitted with one air connector pos. 4 and 5 are closed with a blind plug.

Pos. 3 air supply to open valve Pos. 4 air supply to lift lower seat Pos. 5 air supply to lift upper seat



8.2.7 External sensor

A 5V DC NPN sensor must be used. Operating distance: 5 mm.

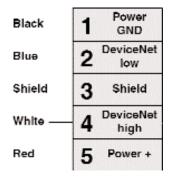








8.3.1 PLC Connection



Colors shown are DeviceNet dropcable

8.3.2 Cable and plug

Male plug - front



Female plug - front



	Pin	Colour DeviceNet cable	Colour SDS cable	Function
	1	Shield	Shield	Screen / Ground
	2	Red	Brown	Bus Power V+
	3	Black	Blue	Bus Power V-
	4	White	Black	DeviceNet high
	5	Blue	White	DeviceNet low
1			I	



Since the screw connections on the plugs are made of stainless steel and thus may feel a little tight, it is a good idea to lubricate them with some grease for easier installation.

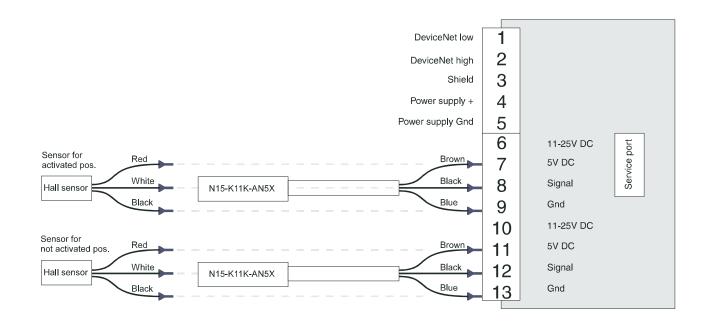
We recommend the grease type Klüber UH1184-201, which can be used with stainless steel.





8.3.3 Cable connection, APV Valve-Net DeviceNet

DA3+ and DE3 comes with external sensors, other valves comes with build-in Hall sensors.



8.3.4 LED status indications

On the Valve-Net there are four LEDs to indicate errors and operating status.

Red: Error condition

Green: Solenoid operating status1st Yellow: Activated position switch status2nd Yellow: Not activated position switch status

The LEDs use different flashing signals to show different messages.

Flash sequences for error indication:

Red-LED

Constantly off :	
- na error	
1 long and 5 short :	
- leed back error	
1 short flash:	
- supply voltage error	







Yellow-LED

р	osition se	nsor signal	ОК	
1 s	short flas	h:		
- n	o position	sensor sig	nal	
1 5	hort pau	se :		
		nsor signal		

Green-LED

Constantly on :
- solenoid valve activated and OK
1 short flash :
- Lower seatlift
2 short flash :
Upper seatlift
1 short pause :
- solenoid power consumption too low

8.3.5 Set-up of DeviceNet communications

Definition of DeviceNet communication

Description of the DeviceNet behaviour is shown in the EDS file (Electronic Data Sheet).

ValveNet DeviceNet conforms to the DeviceNet specifications of "Group 2 only" devices.

The Valve-Net DeviceNet supports:

- Poll
- · Explicit messaging

Poll data: One byte output, one byte input

Default baudrate: 125 Kbps.
Vendore ID: 686
Device type: 0
Product code: 1
Revision: 3.1

Product name: APV Valve-Net DeviceNet







8.3.6 Set up slave address

DeviceNet address can be set by a terminal connect to the service port on the CU.

Register for DeviceNet address is No.12

to read address: "R12 <CR>"

to write address: W12 XX <CR> Where XX is the new address

Service port

Serial channel:

Default communication:

9600, 8bit, 1stop bit, No parity. No flowcontrol.

All received characters are echoed back.

RS232 communication adapter pinout on 9 pol D-sub female:

Pin 2 TX data Pin 3 RX data Pin 5 Ground

Pin 9 5V DC max 100 mA.

Connection to standard PC Comm-port:

Com Port Serial adapter

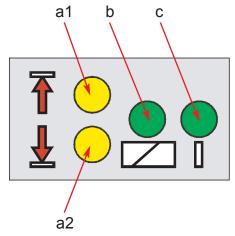
Pin: Pin: 2 - 2 3 - 3 5 - 5

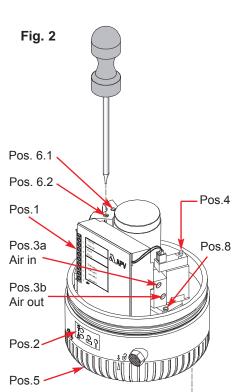
Normally the Serial Adapter is connected directly to the PC comport, and a flat ribbon cable connects the adapter to the DeviceNet unit.











8.3.7 LEDs (Pos. 2)

There are four LEDs which have the following functions:

- a) Valve position. The LED lights up for valve at activated position (a1) and valve at not-activated position (a2). This is used to provide information during operation and to set the position sensors.
 - Please note 8.2.5
- b) Lights up when there is a signal to the solenoid valve.
- c) Status information

8.3.8 Throttling function (Pos. 3a and 3b)

The throttling function consists of two small seat valves placed on the base console next to the solenoid valve. Their function is to make the valve open and close more slowly. This is an advantage if there is a risk of pressure surge or if it is desirable for other reasons. Please note that the seat valve controlling the inlet air must never be completely closed.

8.3.9 Manual activation of the solenoid valve (Pos. 4)

The solenoid valve can be activated manually by turning the handle placed on the top of the solenoid valve. This is used for adjusting the Hall sensor or for by-passing the control system to activate the valve.

8.3.10 Removal of control unit from valve (Pos. 5)

The control unit is released by turning the ribbed ring from the "lock" to the "un-lock" symbol. Then the control unit can be easily lifted off. Removal of the control unit shuts off the air supply.

Pos.8 83.11 Adjustment of feed-back indication (Pos. 6)

After dismantling of the CU, check that the position of the Hall sensors are properly adjusted.

The procedure is as follows:

The Hall sensors must be adjusted to transmit a signal for activated position and not-activated position valve respectively. In this case it is an advantage to use manual activation (Pos. 4).

Turn the adjustment screws (Pos. 6) up/down until the correct LED just lights up. Check that it is in fact the correct LED that lights up. To allow for small fluctuations, turn the adjustment screws two revolutions in the direction in which the LED remains lit.

Control unit for DELTA DA3+ and DE3 valves are fitted with external proximity switches.







Hall sensors

The Hall sensor for activated position is fitted on screw in groove marked pos. 6.1

The Hall sensor for not-activated position is fitted on screw in groove marked ___ pos. 6.2

The LED for activated sensor is marked

marked 👚

The LED for not-activated sensor is marked



Proximity switches

For DA3+ and DE3 external Proximity switches is used. Activated position sensor inserted in low sensor pocket. Not activated position sensor in upper sensor pocket.

The LED for activated sensor is marked



The LED for not-activated sensor is marked



8.3.12 Pressure relief valve (Pos. 7)

The pressure relief valve ensures that no pressure builds up in the cap.

8.3.13 Removal of the electronic box (pos. 1)

The electronic box can be removed by loosen two screws. One screw placed between the two guides for the Hall sensors, and the other is placed on the right side of the electronic box. Remove the cable (plug) from the solenoid valve.

During assembly it should be secured, that the wires for the hall sensors are not tangled, preventing them from sliding up and down unobstructed in the wire tracks.

8.3.14 Removal of solenoid valve (pos. 8)

Remove the cable (plug) from the solenoid valve. Loosen the 2 screws which are fixing the solenoid valve, manifold and gasket. During assembly it is to be ensured, that the gasket is positioned very precisely between the edges at the manifold. The torque for the 2 screws for the solenoid valve is 1,3 Nm, max. 1,6 Nm.



8.4 Electrical data

8.4.1 Power supply



The complete unit is power supplied from the DeviceNet.

Supply voltage: 11-25 V DC, as specified for the DeviceNet

Supply current: Max. 45mA at 24V DC supply,

without active solenoid.

Max. 80mA at 24V DC supply,

with one solenoid active

Electrical

Direct cable PG connection:

The unit is supplied with 0.5M dropcable. Dropcable:

8.4.2 General technical data

Ambient temperature : -20.....+70°C

IP 67 Enclosure rating:

CE: EMC 89/336/EEC

Control air: quality acc. to DIN/ISO 8573-1

- solid particel content : quality class 3,

> maximum number of particels per m³ 10 000 of size $0.5 \mu m < d < 1.0 \mu m$ 500 of size $1,0\mu m < d < 5,0\mu m$

- water content : quality class 4,

max. pressure dew point +3°C

(for installations at lower temperatures or higher altitudes additional measures must be considered to reduce the pressure dew point accordingly)

- oil content : quality class 1, max. 0,01mg/m³

(the used oil must be compatible with Polyurethan elastomer materials)

8.5 Warnings

If welding is done close to the control unit, the following precautions should be taken:

- always ground the welding torch close to the welding point
- remove the cable for the control unit from the welding point so that the magnetic field around the welding arc does not enter the cable and damage the electronics.





Translation of original manual

rev. 1





Your local contact:

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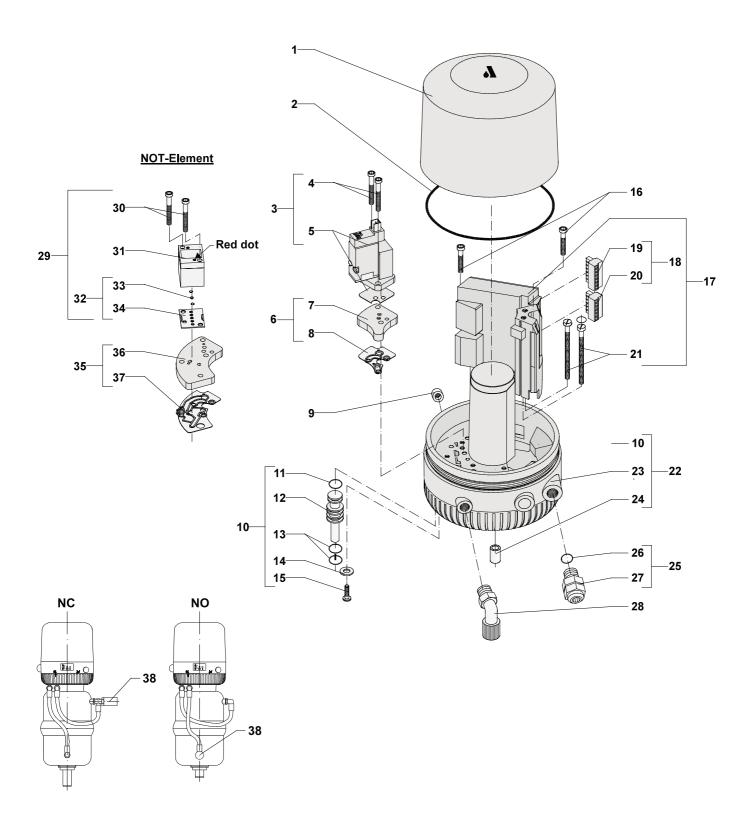
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Styreenhed / Control unit





453331 ISS Q 11.20

Styreenhed / Control unit

DELTA CU3 - DeviceNet

Pos	Stk/Qty	Matr./Dim	Benævnelse	Description	Del nr. / Part No.
-	-		Styreenhed - Standard Styreenhed - NOT-element	Control unit - Standard Control unit - NOT-element	804611 804612
1 2	1 1	Ø105x2.5 /NBR	Hætte O-ring	Cap O-Ring	273998 -
3 - 4 - 5	1 2 1		Magnetventil komplet TORX-skrue Magnetventil og pakning	Solenoid Valve complete TORX-screw Solenoid Valve and Gasket	773949 - -
6 - 7 - 8	1 1 1		Manifold sæt Manifold Pakning til manifold	Manifold kit Manifold Gasket for Manifold	808361 - -
9	1		Lyddæmper	Sound Damper	773223
10 - 11 - 12 - 13 - 14 - 15	1 1 1 2 1	Ø7.65x1.78 /NBR Ø9.25x1.78 /NBR Ø4.3 A2 /DIN 9021 40x12 /WN 1451	Stempel sæt O-ring Stempel O-ring Skive Skrue	Piston kit O-Ring Piston O-Ring Washer Screw	808362 - - - - - -
16	2	40x45 /WN 1452	TORX-skrue	TORX-screw	773225
17 - 18 - 19* - 20* 21	1 1 1 1 2		Elektronikboks komplet Stik sæt Stik til klemrække, 5 ledninger Stik til klemrække, 8 ledninger Justerskrue	Electronic Box complete Plug kit Plug for terminal block, 5 wire Plug for terminal block, 8 wire Adjusting Screw	804649 808383 - - -
22 - 23 - 24	1 1 1		Sokkel sæt Sokkel Overtryksventil	Base kit Base Pressure relief Valve	808310 - -
25 - 26 - 27	1 1 1	Ø12.42x1.78 /NBR	Kabelforskruning sæt O-ring Kabelforskruning	Cable Inlet kit O-Ring Cable Inlet	808365 - -
28	1		Drejelig vinkel	Elbow Connector	773222
29 - 30 - 31 - 32 - 33** - 34	1 2 1 1 3	40x50 /WN 1452 Ø3.68x1.78 /NBR	NOT-element sæt TORX-skrue NOT-element Paknings sæt O-ring Pakning	NOT-element Complet TORX-screw NOT-element Gasket kit O-Ring Gasket	808366 - - 808368 - -
35 - 36 - 37	1 1 1		Manifold sæt Manifold Pakning til manifold	Manifold kit Manifold Gasket for Manifold	808369 - -
38***	1		Reduktionsventil	Reduction Valve	773406

^{*} Reservedel til elektronikboks Spare part for Electronic Box

^{**} Reservedel for NOT-element Spare part for NOT-element

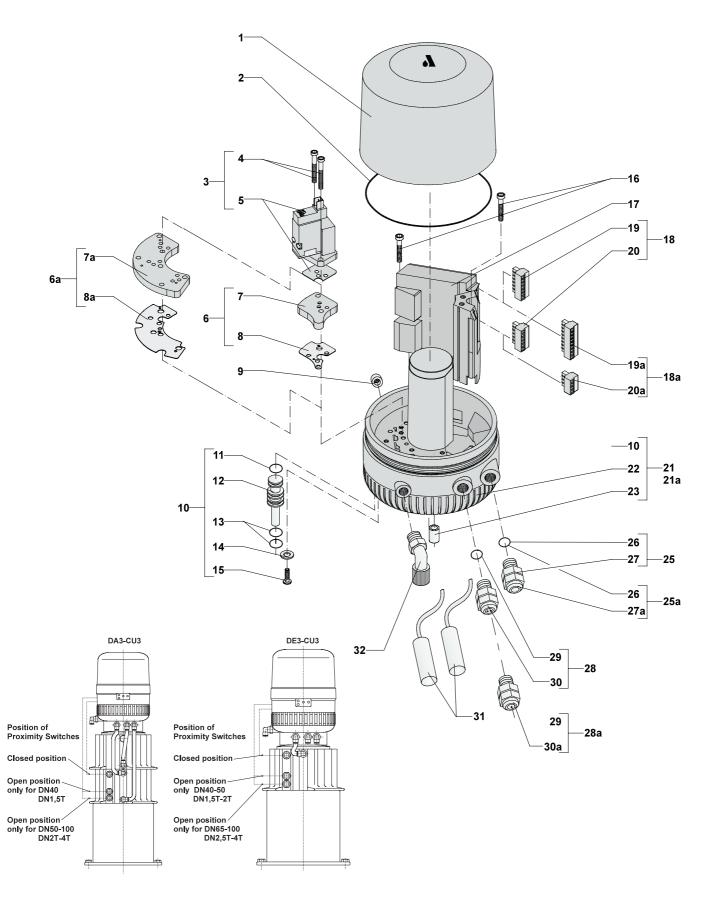
^{***} Reduktionsventilen, som medfølger til montering af aktuatoren, reducerer lufttrykket til 5 bar.

The pressure reducing valves included for mounting in the actuator reduce the air pressure to 5 Bar



Styreenhed / Control unit

DELTA CU3 for DA3+ / DE3 - DeviceNet





Styreenhed / Control unit

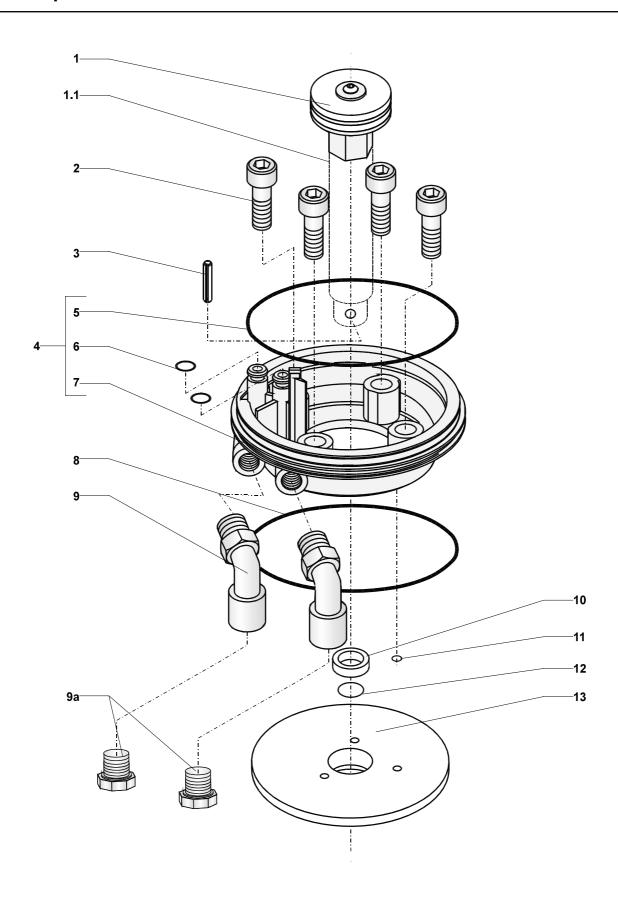
DELTA CU3 for DA3+ / DE3 - DeviceNet

Pos	Stk/Qty	Matr./Dim	Benævnelse	Description	Del nr. / Part No.
-	-		Styreenhed - 1 magnetventil Styreenhed - 3 magnetventiler	Control unit - 1 Solenoid Valve Control unit - 3 Solenoid Valves	804613 804614
1 2	1	Ø105x2.5 /NBR	Hætte O-ring	Cap O-Ring	273998 -
3 - 4 - 5	1 2 1		Magnetventil sæt TORX-skrue Magnetventil	Solenoid Valve kit TORX-screw Solenoid Valve	773949 - -
6 - 7 - 8	1 1 1		Manifold sæt - 1 magnetventil Manifold Pakning	Manifold - 1 Solenoid Valve Manifold Gasket	808361 - -
6a - 7a - 8a	1 1 1		Manifold sæt - 3 magnetventiler Manifold Pakning	Manifold - 3 Solenoid Valves Manifold Gasket	808371 - -
9	1		Lyddæmper	Sound Damper	773223
10 - 11 - 12 - 13 - 14 - 15	1 1 1 2 1	Ø7.65x1.78 /NBR Ø9.25x1.78 /NBR Ø4.3 A2 /DIN 9021 40x12 /WN 1451	Stempel sæt O-ring Stempel O-ring Skive Skrue	Piston kit O-Ring Piston O-Ring Washer Screw	808362 - - - - - -
16	2	40x45 /WN 1452	TORX-skrue	TORX-screw	773225
17 18 - 19 - 20	1 1 1 1		Elektronikboks - 1 magnetventil Stik sæt - 1 magnetventil Stik til klemrække, 5 ledninger Stik til klemrække, 8 ledninger	Electronic Box - 1 Solenoid Valve Plug kit - 1 Solenoid Valve Plug for terminal block, 5 wire Plug for terminal block, 8 wire	804650 808383 - -
17a 18a - 19a - 20a	1 1 1 1		Elektronikboks - 3 magnetventiler Stik sæt - 3 magnetventiler Stik til klemrække, 5 ledninger Stik til klemrække, 8 ledninger	Electronic Box - 3 Solenoid Valves Plug kit - 3 Solenoid Valves Plug for terminal block, 5 wire Plug for terminal block, 8 wire	804651 808383 - -
21 21a 22 23	1 1 1		Sokkel sæt - 1 magnetventil Sokkel sæt - 3 magnetventiler Sokkel Overtryksventil	Base kit - 1 Solenoid Valve Base kit - 3 Solenoid Valves Base Pressure relief Valve	808311 808312 - -
25 - 26 - 27	1 1 1	Ø12.42x1.78 /NBR	Kabelforskruning sæt (4-8 mm) O-ring Kabelforskruning	Cable Inlet kit (4-8 mm) O-Ring Cable Inlet	808365 - -
25a - 26 - 27a	1 1 1	Ø12.42x1.78 /NBR	Kabelforskruning sæt (5-10 mm) O-ring Kabelforskruning	Cable Inlet kit (5 10 mm) O-Ring Cable Inlet	808372 - -
28 - 29 - 30	1 1 1	13.00 x 2.00/NBR 70	Kabelforskruning f. 2 induktiv føler O-ring Kabelforskruning	Cable Inlet f. 2 Proximity switch O-Ring Cable Inlet	808373 - -
28a - 29 - 30a	1 1 1	ø18.77x1.78 NBR 70	Kabelforskruning f. 1 induktiv føler O-ring Kabelforskruning	Cable Inlet f. 1 Proximity switch O-Ring Cable Inlet	808380 - -
31	2		Induktiv føler (5V NPN)	Proximity Switch (5V NPN)	773479





8.5 Adaptor DELTA CU3







8.5 Adaptor DELTA CU3

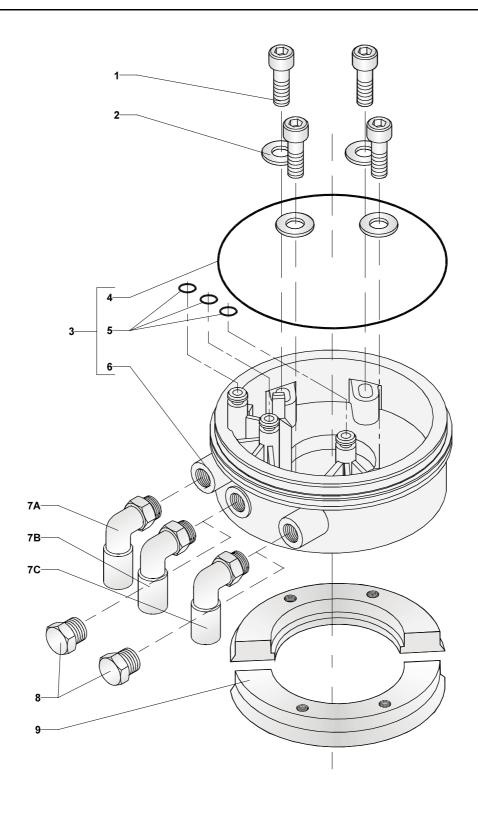
					DELTA SW4	DELTA SW4 125/150	VPS/VPL/ VPB	VPS-3A	VPS-3A Longstroke	VPM
Pos.	Stk./Qty.	Matr./Dim	Benævelse	Description			Del nr. / I	Part No.		
-	-		Komplet adaptor	Complete adaptor	801192	08-48-362/93	801193	801198	801199	801191
1	1		Aktuatorskrue	Actuator screw	188645	188645	801241	801246	801247	801248
1.1	1		Forlængerstykke	Extension rod		15-26-057/93				
2	4	M8 x 25/ DIN 912 A4	Skrue	Screw	701942	701942				
	4	M5 x 18/ DIN 84 A2	Skrue	Screw			773353	773353	773353	773353
3	1		Split	Split pin				773357	773357	
4	4		Adaptor sæt	Adaptor kit	808376	808376	808377	808377	808377	808377
- 5	1	Ø88.62x1.78 /NBR	O-ring	O-Ring	-	-	-	-	-	-
- 6	2	Ø5.28x1.78 /NBR	O-ring	O-Ring	-	-	-	-	-	-
- 7	1		Adaptor	Adaptor	-	-	-	-	-	-
8	1	Ø88x1.5 /NBR	O-ring	O-Ring			772123	772123	772123	772123
9	2		Drejelig vinkel	Elbow connector	773222	773222	773222	773222	773222	773222
9a	2		Prop	Plug						
10	1		Pakning	Gasket						
11	1	Ø13x2 /NBR70	O-ring	O-Ring						
12	1		O-ring	O-Ring						
13	1		Konsol	Konsol						801231

				SV/SVS NW 25-100 and 1"-4", DKR NW25-65 and 1" - 2,5"	NW 125 - 250, 80 - 125 and 3" - 4"			
					SV/SVS 1"-4", D	SVS NW DKR 80	S2/D2	S3
Pos.	Stk./Qty.	Matr./Dim	Benævelse	Description		Del nr./	Part No.	
-	-		Komplet adaptor	Complete adaptor	801194	801195	801196	801197
1 2	1 4 4	M8 x 25/ DIN 912 A4 M5 x 18/ DIN 84 A2	Aktuatorskrue Skrue Skrue	Actuator screw Screw Screw	801242 773353	801243 773353	801244 	801245 701942
	4	M8x22/DIN912A4-80	Skrue	Screw			773356	
3	1		Split	Split pin				
4 - 5	4		Adaptor sæt O-ring	Adaptor kit O-Ring	808378 -	808378 -	808379 -	807379 -
- 6 - 7	1		O-ring Adaptor	O-Ring Adaptor	-	- -	- -	-
8 9 9a 10	1 2 2 1	Ø90x2 /NBR	O-ring Drejelig vinkel Prop Pakning	O-Ring Elbow connector Plug Gasket	771640 750218 	771640 750218 705918	 773222 	 773222
11 12 13	1 1 1	13X2 /NBR 70 Ø11 X 3 /NBR	O-ring O-ring Konsol	O-Ring O-Ring Konsol	773354 	773354 771978 	 	





8.5 Adaptor







453229 ISS Q 10.200

8.5 Adaptor

DELTA CU3 for DA3+ / DE3

Pos	Benævnelse	Description		
7A	Luft for hovedcylinder	Air for main actuator		
7B	Luft for sædeløft bund	Air for lower seat lift		
7C	Luft for sædeløft top	Air for upper seat lift		

Adaptor for DA3+ / DE3 - 1 magnetventil / 1 Solenoid valve

Pos	Stk/Qty	Matr./Dim	Benævnelse	Description	Del nr. / Part No.
-	-		Adaptor komplet - 1 magnetventil	Adaptor complete - 1 solenoid Valve	801233
1 2 3 - 4 - 5 - 6	4 4 1 1 3 1	M5x25 A2 9x5.48x1.0 Ø88.62x1.78 /NBR Ø5.28x1.78 /NBR	Skrue Skive Adaptor kit O-ring O-ring Adaptor	Screw Washer Adaptor kit O-Ring O-Ring Adaptor	- 808375 - - -
7A 8 9	1 2 2		Drejevinkel Prop Monteringshalvpart	Elbow connector Plug Adaptor half	773222 750218 274699

Adaptor for DA3+ - 3 magnetventil / 3 Solenoid valve

Pos	Stk/Qty	Matr./Dim	Benævnelse	Description	Del nr. / Part No.
-	-		Adaptor komplet - 3 magnetventil	Adaptor complete - 3 solenoid Valve	801237
1	4	M5x25 A2	Skrue	Screw	-
2 3	4 1	9x5.48x1.0	Skive Adaptor kit	Washer Adaptor kit	- 808375
- 4	1	Ø88.62x1.78 /NBR	O-ring	O-Ring	-
- 5	3	Ø5.28x1.78 /NBR	O-ring	O-Ring	-
- 6	1		Adaptor	Adaptor	-
7A-B-C	3		Drejevinkel	Elbow connector	773222
8	-		Prop	Plug	
9	2		Monteringshalvpart	Adaptor half	274699