

ANEXOS

[Anexo 2] Listado de Equipos

GRANEL SILO 1, MANGA 1, BOCA A

G.F.H.	EQUIPO
579-010	Trituradora de terrones
579-052	Electroválvula neumática
579-054	Compuerta motorizada
579-090	Motor vibrador de manga
579-091	Ventilador de manga
579-095	Ascenso/Descenso de manga de carga
579-700	Soplador de fluidificación
579-700EV19	Electroválvula de fluidificación
579-700EV26	Electroválvula de fluidificación
579-710	Soplador de fluidificación
579-710EV07	Electroválvula de fluidificación
579-710EV11	Electroválvula de fluidificación
579-710EV19	Electroválvula de fluidificación
579-710EV26	Electroválvula de fluidificación
579-710EV30	Electroválvula de fluidificación
579-710EV32	Electroválvula de fluidificación
460-730B	Electroválvula de fluidificación
460-730C	Electroválvula de fluidificación
460-730D	Electroválvula de fluidificación
460-730E	Electroválvula de fluidificación
460-730F	Electroválvula de fluidificación
460-730G	Electroválvula de fluidificación
460-730H	Electroválvula de fluidificación
460-730I	Electroválvula de fluidificación
460-730J	Electroválvula de fluidificación
460-730K	Electroválvula de fluidificación
460-750A	Electroválvula de fluidificación
460-750B	Electroválvula de fluidificación
460-750C	Electroválvula de fluidificación
460-750D	Electroválvula de fluidificación
460-750E	Electroválvula de fluidificación
460-750F	Electroválvula de fluidificación
460-750G	Electroválvula de fluidificación
460-750H	Electroválvula de fluidificación
460-521	Ventilador de barrido
460-523	Ventilador de tiro
460-525	Motor de limpieza del filtro
460-526	Esclusa
	Timer manga 1

GRANEL SILO 1, MANGA 1, BOCA B

G.F.H.	EQUIPO
579-020	Trituradora de terrones
579-062	Electroválvula neumática
579-064	Compuerta motorizada

GRANEL SILO 1, MANGA 2, BOCA I

G.F.H.	EQUIPO
579-030	Trituradora de terrones
579-072	Electroválvula neumática
579-074	Compuerta motorizada
579-100	Motor vibrador de manga
579-101	Ventilador de manga
579-105	Ascenso/Descenso de manga de carga Timer manga 2

GRANEL SILO 1, MANGA 2, BOCA J

G.F.H.	EQUIPO
579-040	Trituradora de terrones
579-082	Electroválvula neumática
579-084	Compuerta motorizada

GRANEL SILO 2, MANGA 1, BOCA A

G.F.H.	EQUIPO
579-110	Trituradora de terrones
579-152	Electroválvula neumática
579-154	Compuerta motorizada
579-190	Motor vibrador de manga
579-191	Ventilador de manga
579-195	Ascenso/Descenso de manga de carga
460-551	Ventilador de barrido
460-553	Ventilador de tiro
460-555	Motor de limpieza del filtro
460-556	Esclusa 1 Timer manga 1

GRANEL SILO 2, MANGA 1, BOCA B

G.F.H.	EQUIPO
579-120	Trituradora de terrones
579-162	Electroválvula neumática
579-164	Compuerta motorizada

GRANEL SILO 2, MANGA 2, BOCA I

G.F.H. EQUIPO

579-130	Trituradora de terrones
579-172	Electroválvula neumática
579-174	Compuerta motorizada
579-200	Motor vibrador de manga
579-201	Ventilador de manga
579-205	Ascenso/Descenso de manga de carga Timer manga 2

GRANEL SILO 2, MANGA 2, BOCA J

G.F.H. EQUIPO

579-140	Trituradora de terrones
579-182	Electroválvula neumática
579-184	Compuerta motorizada

GRANEL SILO 3, MANGA 1

G.F.H. EQUIPO

579-310	Trituradora de terrones
579-331	Ventilador de reguera
579-332	Electroválvula neumática
579-334	Compuerta motorizada
579-350	Motor vibrador de manga
579-351	Ventilador de manga
579-355	Ascenso/Descenso de manga de carga
523-700	Soplador de fluidificación
523-700EV04	Electroválvula de fluidificación
523-710	Soplador de fluidificación
523-710EV11	Electroválvula de fluidificación
523-720	Soplador de fluidificación
523-730	Distribuidor o selector de salidas
460-750I	Electroválvula de fluidificación
460-750J	Electroválvula de fluidificación
460-580	Timer
460-583	Ventilador de tiro
460-586	Esclusa Timer manga 1

GRANEL SILO 3, MANGA 2

G.F.H.	EQUIPO
579-320	Trituradora de terrones
579-341	Ventilador de reguera
579-342	Electroválvula neumática
579-344	Compuerta motorizada
579-360	Motor vibrador de manga
579-361	Ventilador de manga
579-365	Ascenso/Descenso de manga de carga Timer manga 2

EXTRACCIÓN A ENSACADORA 1, DEL SILO 1, BOCA E

G.F.H.	EQUIPO
521-010	Trituradora de terrones
521-042	Electroválvula neumática
521-043	Ventilador de reguera
521-044	Compuerta motorizada
521-170	Elevador
521-181	Ventilador de reguera
521-191	Ventilador de reguera
521-700	Soplador de fluidificación
521-520B	Timer
521-523	Ventilador de tiro
521-525	Esclusa
521-550B	Timer
521-553	Ventilador de tiro
521-555	Esclusa
521-700EV04	Electroválvula de fluidificación
521-700EV11	Electroválvula de fluidificación
521-700EV15	Electroválvula de fluidificación

EXTRACCIÓN A ENSACADORA 1, DEL SILO 1, BOCA F

G.F.H.	EQUIPO
521-020	Trituradora de terrones
521-052	Electroválvula neumática
521-054	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 1, DEL SILO 1, BOCA G

G.F.H.	EQUIPO
521-030	Trituradora de terrones
521-062	Electroválvula neumática
521-064	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 1, DEL SILO 2, BOCA D

G.F.H.	EQUIPO
521-110	Trituradora de terrones
521-132	Electroválvula neumática
521-134	Compuerta motorizada
521-151	Ventilador de reguera

EXTRACCIÓN A ENSACADORA 1, DEL SILO 2, BOCA E

G.F.H.	EQUIPO
521-120	Trituradora de terrones
521-142	Electroválvula neumática
521-144	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 2, DEL SILO 1, BOCA C

G.F.H.	EQUIPO
522-010	Trituradora de terrones
522-042	Electroválvula neumática
522-043	Ventilador de reguera
522-044	Compuerta motorizada
522-170	Elevador
522-181	Ventilador de reguera
522-700	Soplador de fluidificación
522-520A	Timer
522-523	Ventilador de tiro
522-525	Esclusa
522-550A	Timer
522-553	Ventilador de tiro
522-555	Esclusa
522-700EV04	Electroválvula de fluidificación
522-700EV08	Electroválvula de fluidificación
522-700EV12	Electroválvula de fluidificación
522-700EV16	Electroválvula de fluidificación
522-700EV20	Electroválvula de fluidificación

EXTRACCIÓN A ENSACADORA 2, DEL SILO 1, BOCA D

G.F.H.	EQUIPO
522-020	Trituradora de terrones
522-052	Electroválvula neumática
522-054	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 2, DEL SILO 1, BOCA H

G.F.H.	EQUIPO
522-030	Trituradora de terrones
522-062	Electroválvula neumática
522-064	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 2, DEL SILO 2, BOCA C

G.F.H.	EQUIPO
522-110	Trituradora de terrones
522-132	Electroválvula neumática
522-134	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 2, DEL SILO 2, BOCA H

G.F.H.	EQUIPO
522-120	Trituradora de terrones
522-142	Electroválvula neumática
522-143	Ventilador de reguera
522-144	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 3, DEL SILO 2, BOCA F

G.F.H.	EQUIPO
523-020	Trituradora de terrones
523-042	Electroválvula neumática
523-044	Compuerta motorizada
523-051	Ventilador de reguera
523-170	Elevador
523-181	Ventilador de reguera
523-183	Ventilador de reguera
523-520B	Timer
523-523	Ventilador de tiro
523-525	Esclusa
523-550A	Timer
523-553	Ventilador de tiro
523-555	Esclusa

EXTRACCIÓN A ENSACADORA 3, DEL SILO 2, BOCA G

G.F.H.	EQUIPO
523-010	Trituradora de terrones
523-032	Electroválvula neumática
523-034	Compuerta motorizada

EXTRACCIÓN A ENSACADORA 3, DEL SILO 3

G.F.H.	EQUIPO
523-110	Trituradora de terrones
523-122	Electroválvula neumática
523-124	Compuerta motorizada
523-131	Ventilador de reguera

ENSACADORA 1

G.F.H.	EQUIPO
531-350	Elevador
531-370	Tamiz vibratorio
531-380	Tolva
531-390	Esclusa Flux
531-400	Ensacadora
531-420	Transportadora de lámina
531-455	Rosca recuperadora
531-460	Cinta transportadora
531-470	Desviador
531-470EV	Electroválvula desviador
531-471	Carro alimentador de andén 1
531-472	Cinta transportadora de anden 1
531-476	Alimentador andén 1
531-480	Desviador
531-621	Ventilador de barrido
531-622	Carro de barrido
531-623	Ventilador de tiro
531-626	Esclusa
531-651	Ventilador de barrido
531-652	Carro de barrido
531-653	Ventilador de tiro
531-655	Rosca bajo filtro
531-811	Winche 3 almacén de sacos

ENSACADORA 2

G.F.H.	EQUIPO
532-350	Elevador
532-361	Ventilador de reguera
532-362	Ventilador de reguera
532-370	Criba vibratorio
532-380	Tolva
532-390	Esclusa de rueda celular
532-400	Ensacadora
532-420	Cinta receptora de sacos
532-425	Maltratasacos
532-430	Rodillo desviador eliminador de sacos
532-430A	Electroválvula de descartador
532-435	Ventilador limpiador de sacos
532-440	Cuchilla A
532-445	Cuchilla B
532-450	Separador de sacos rotos
532-455	Rosca recuperadora
532-460	Cinta transportadora
532-470	Desviador
532-470EV	Electroválvula desviador
532-471	Carro alimentador de andén 1
532-480	Desviador
532-480EV	Electroválvula de desviador
532-481	Carro alimentador de andén 2
532-482	Cinta transportadora de anden 2
532-486	Alimentador andén 2
532-520A	Timer
532-523	Ventilador de tiro
532-526	Esclusa
532-620A	Timer
532-623	Ventilador de tiro
532-625	Rosca bajo filtro
532-626	Esclusa

ENSACADORA 3

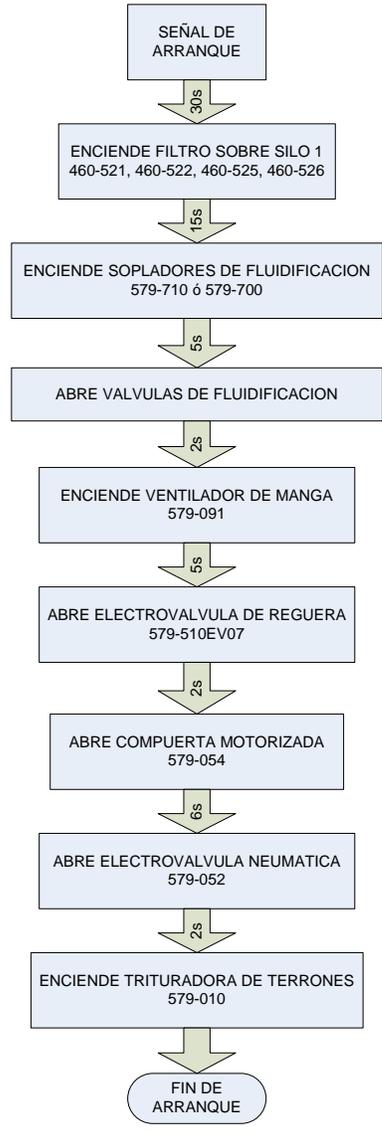
G.F.H.	EQUIPO
543-350	Elevador
543-370	Criba vibratoria
543-380	Tolva
543-390	Esclusa de rueda celular
543-400	Ensacadora
543-410	Aplicador de sacos
543-420	Cinta receptora de sacos
543-435	Báscula
543-440	Banda transportadora
543-441	Ventilador de limpieza de sacos
543-442	Báscula eliminador de sacos
543-443	Rodillo
543-450	Cuchilla A
543-455	Cuchilla B
543-460	Separador de sacos rotos
543-470	Rosca recuperadora
543-490	Cinta transportadora
543-620A	Timer
543-623	Ventilador de tiro
543-625	Esclusa
543-626	Esclusa
543-627	Rosca bajo filtro

EQUIPOS VARIOS

G.F.H.	EQUIPO
580-700	Secador 1
580-720	Secador 2
	Control de CCM (PLC 1)
	Control de CCM (PLC 2)
	Control de CCM (PLC 2)
	Claxon de arranque instalación PLC 1
	Claxon de arranque instalación PLC 2
	Claxon de arranque instalación PLC 3
	Control de ATA (PLC 1)
	Control de ATA (PLC 2)
	Control de ATA (PLC 3)
531-740	Compresor 1 Servicio general
531-760	Compresor 2 Servicio general
PALET	Paletizador M-2400 (25CV)
PAL-VENT	Paletizadora Ventomatic
IMP1	Impresora de ensacadora Flux
IMP2	Impresora de ensacadora Haver 1
IMP3	Impresora de ensacadora Haver 2

[Anexo 3.1] Diagrama de flujo de programación

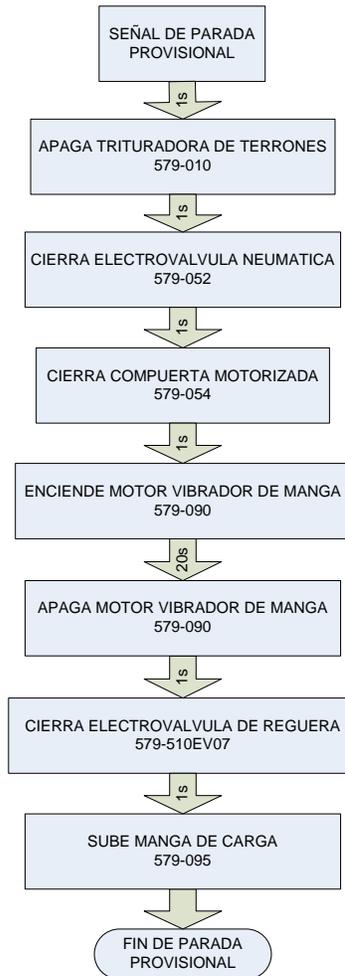
Descarga a granel Silo 1, Manga 1, Boca A – Arranque
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



[Anexo 3.2] Diagrama de flujo de programación

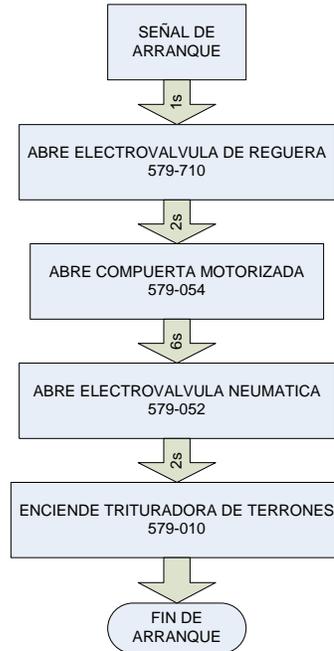
Descarga a granel Silo 1, Manga 1, Boca A – Parada provisional

Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



[Anexo 3.3] Diagrama de flujo de programación

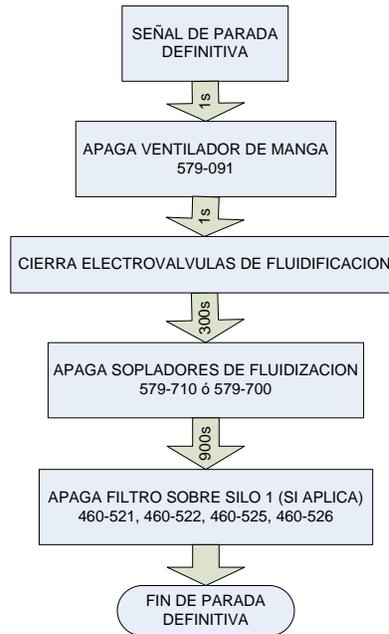
Descarga a granel Silo 1, Manga 1, Boca A – Nuevo arranque
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



[Anexo 3.4] Diagrama de flujo de programación

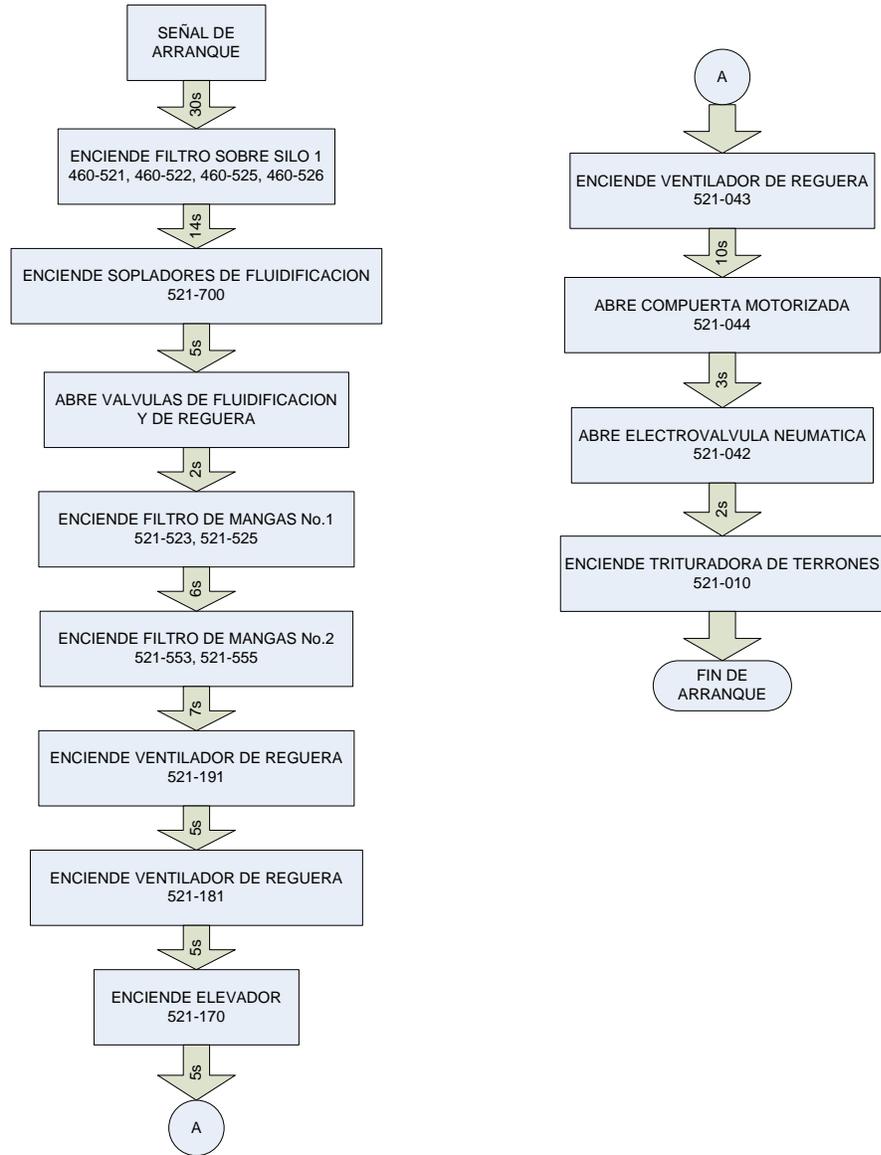
Descarga a granel Silo 1, Manga 1, Boca A – Parada definitiva

Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



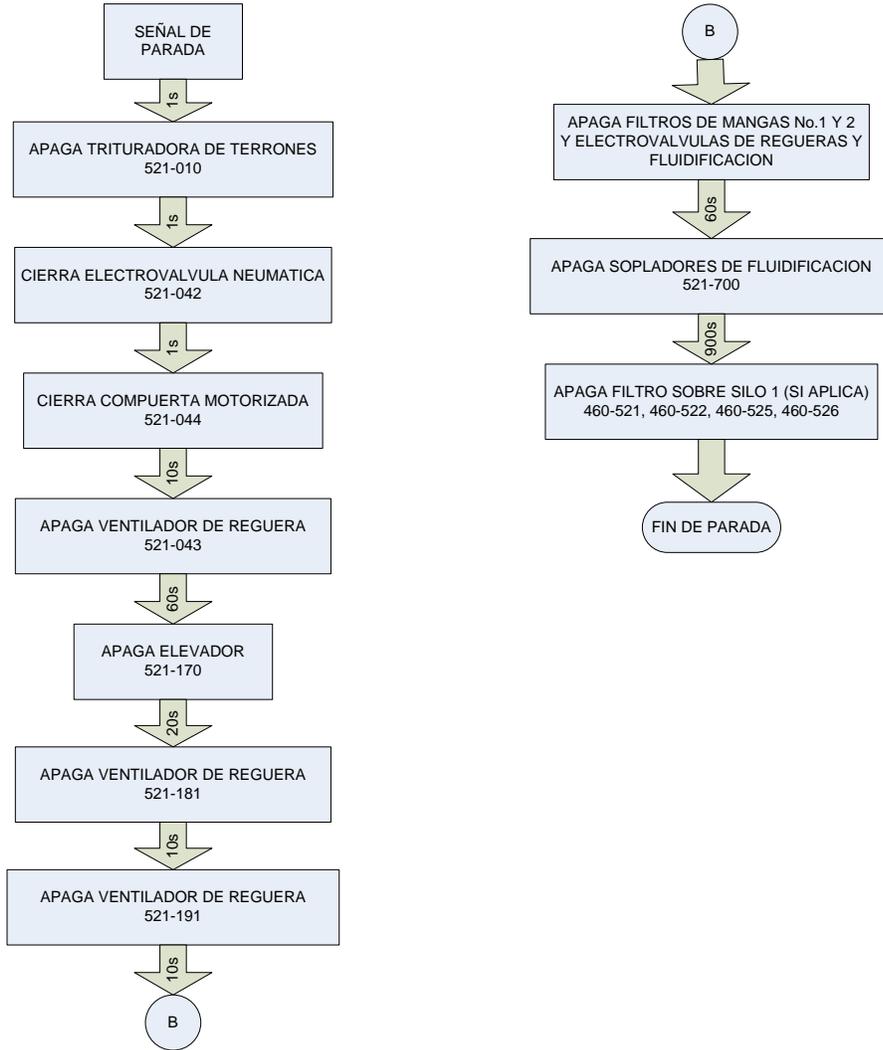
[Anexo 3.5] Diagrama de flujo de programación

Extracción para ensacadora FLUX del silo 1, de la boca E
– Arranque
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



[Anexo 3.6] Diagrama de flujo de programación

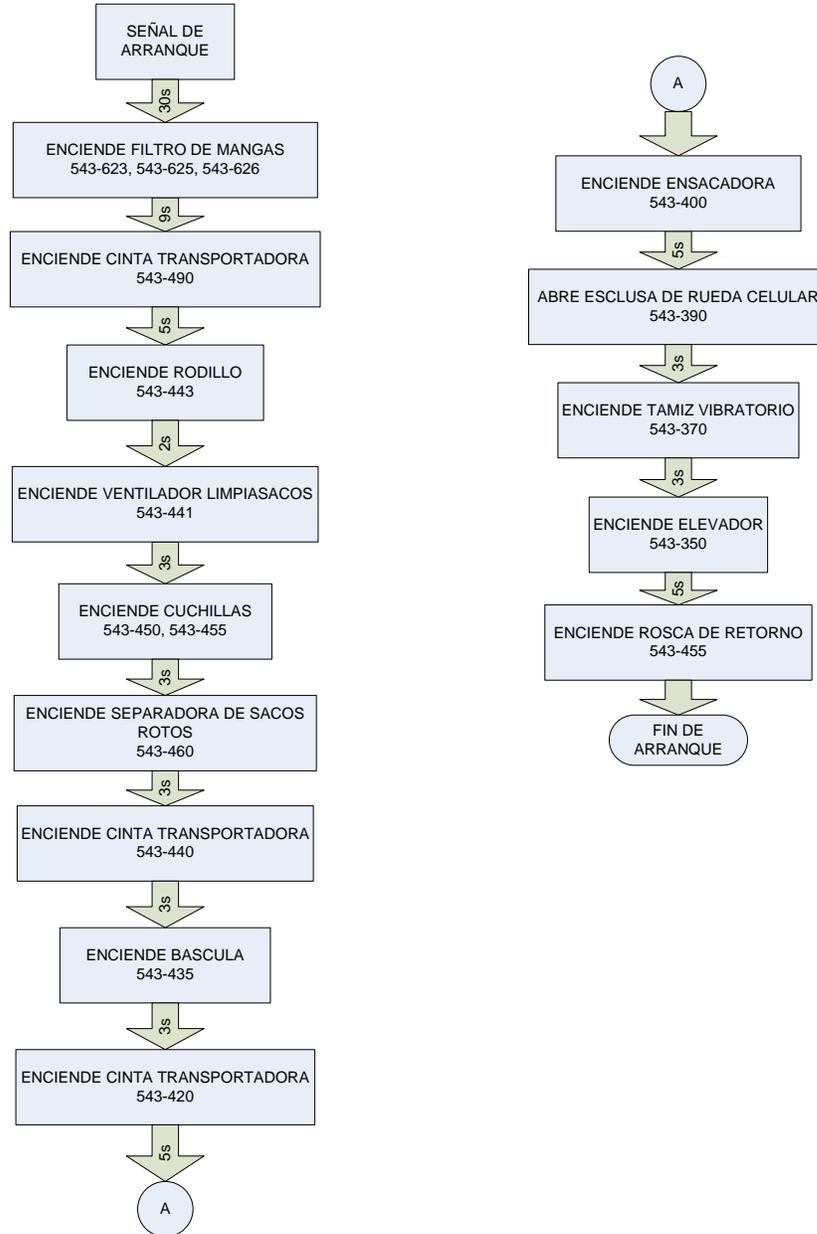
Extracción para ensacadora FLUX del silo 1, de la boca E
– Parada
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



[Anexo 3.7] Diagrama de flujo de programación

Ensacadora Haver 2 – Arranque

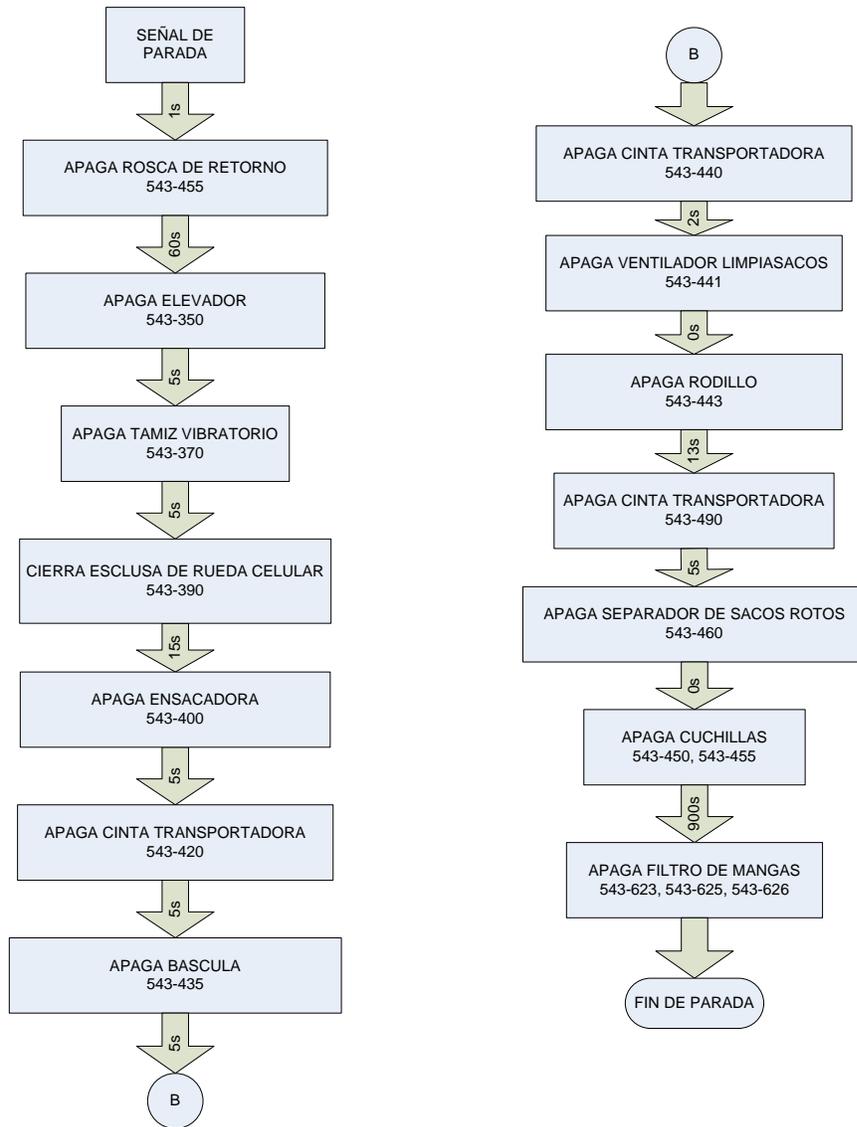
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



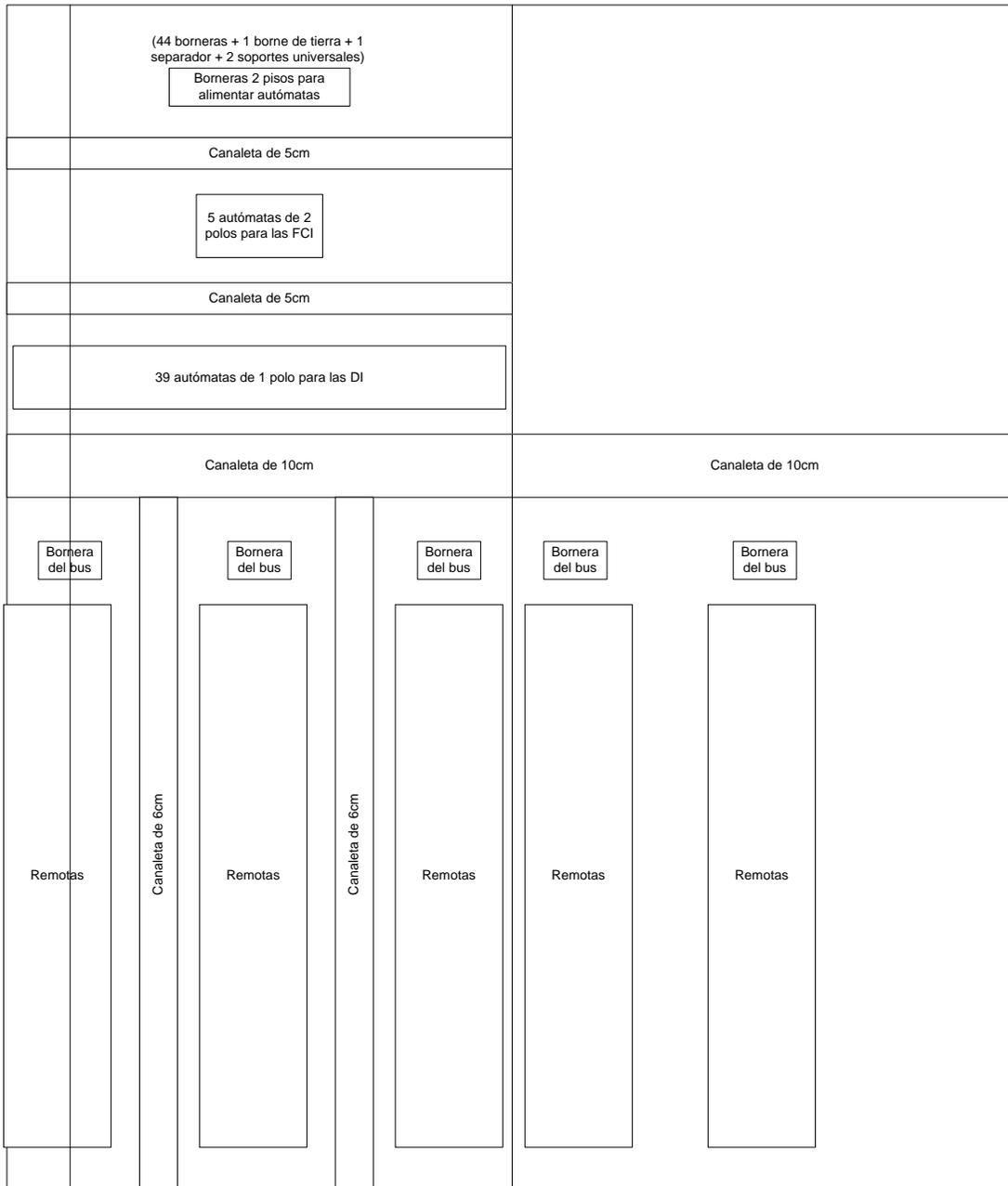
[Anexo 3.8] Diagrama de flujo de programación

Ensacadora Haver 2 – Parada

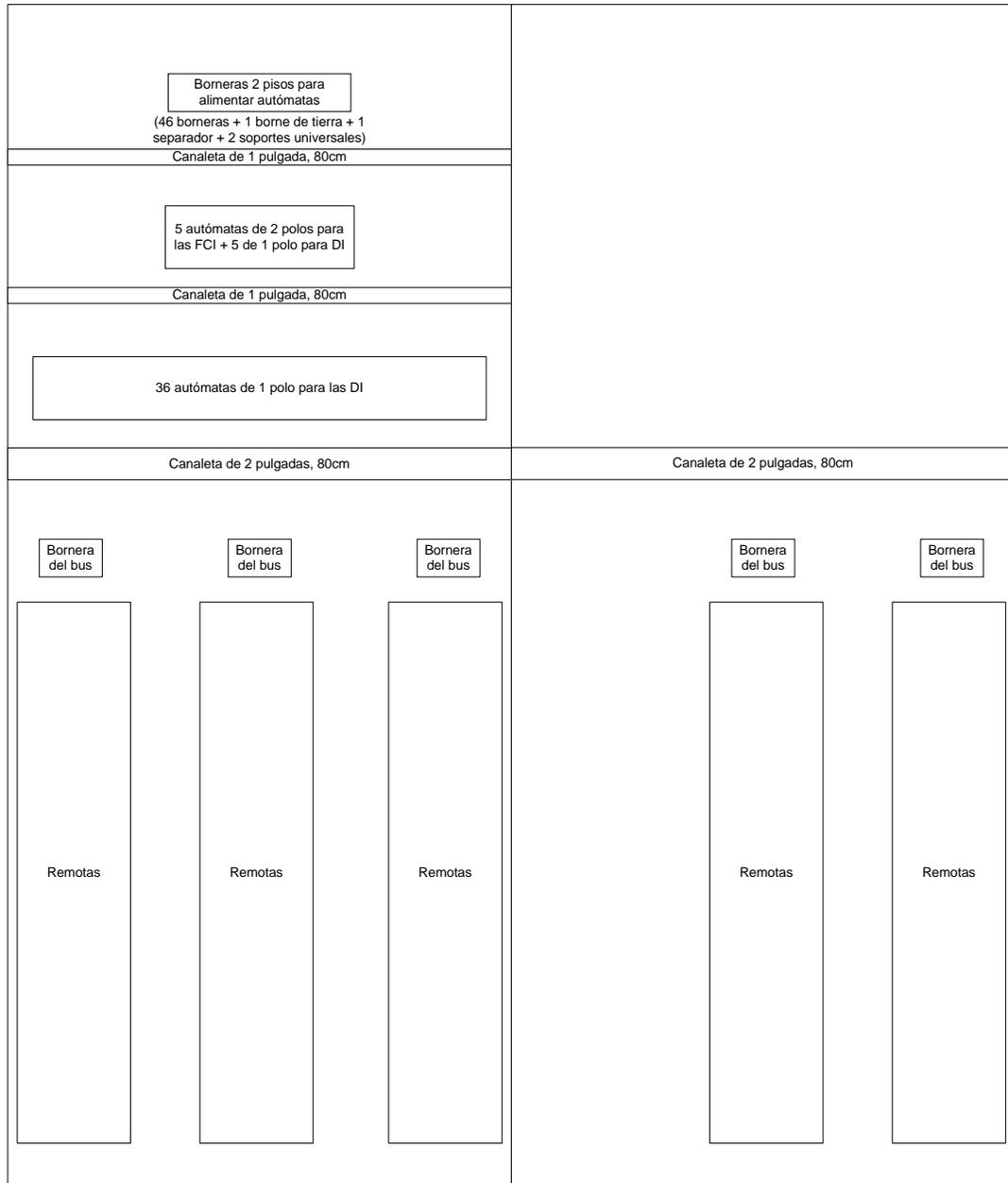
Area de ensacado y despacho a granel, planta Ocumare del Tuy, Lafarge Venezuela



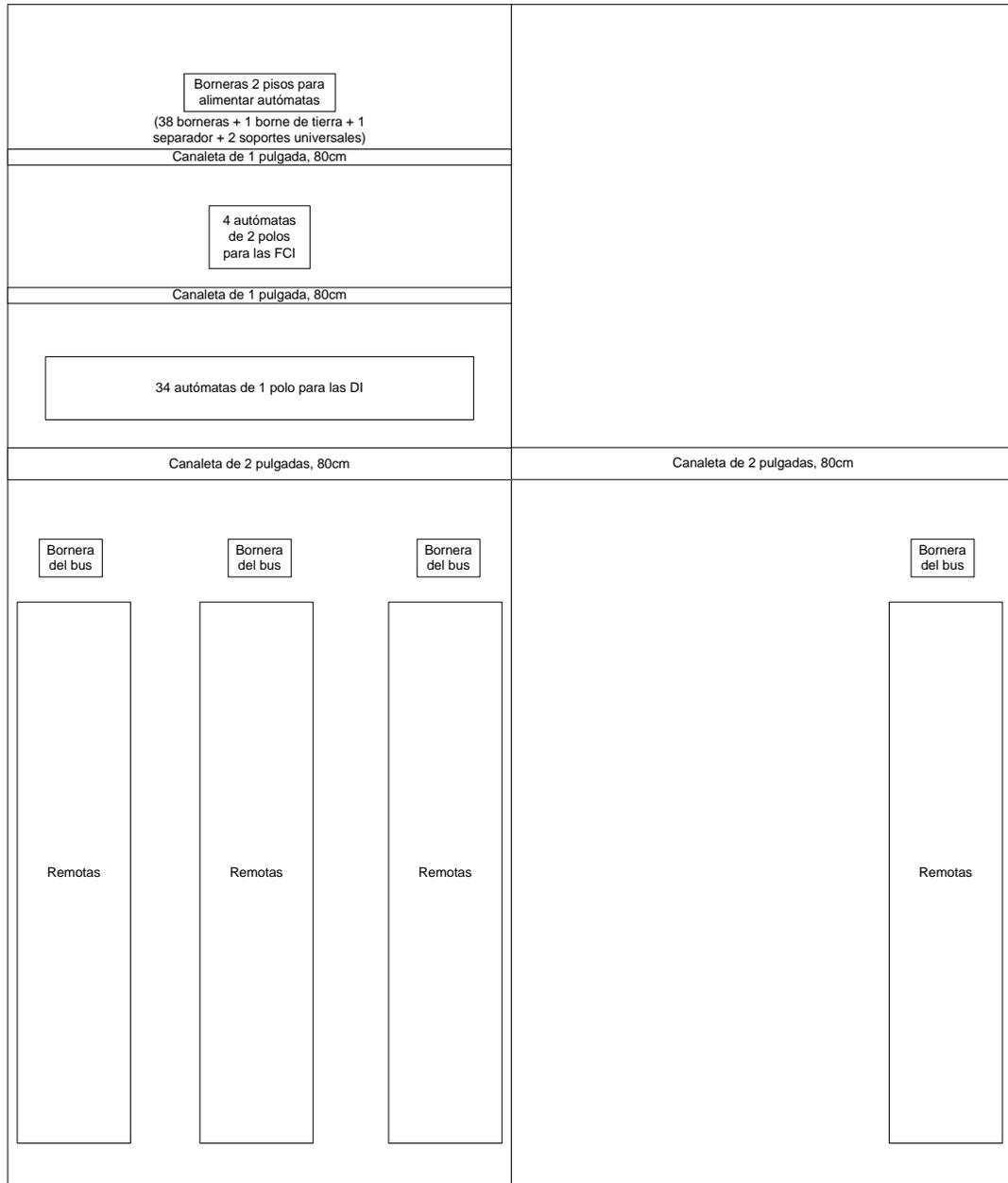
[Anexo 4.1] Disposición de equipos en armario 1



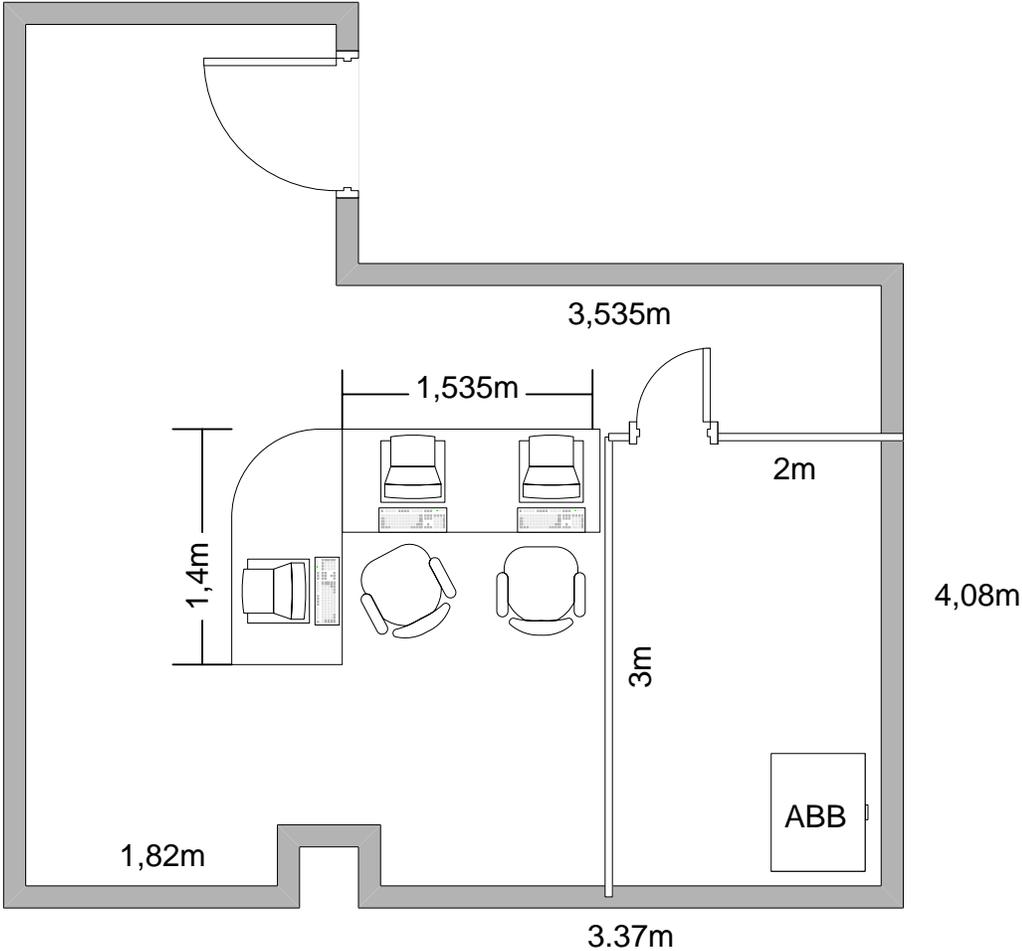
[Anexo 4.2] Disposición de equipos en armario 2



[Anexo 4.3] Disposición de equipos en armario 3



[Anexo 5] Disposición de los equipos en la sala de control



[Anexo 6] Elementos PC del lenguaje AMPL

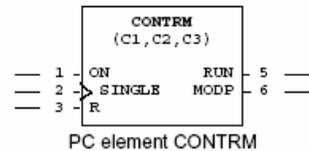
En las siguientes páginas se encuentra una impresión directa del manual ABB de los elementos PC utilizados en el programa que no son comunes a otros lenguajes (no se incluyen elementos como compuertas, multiplexores, etc.)

Control Module Header

CONTRM

Summary

CONTRM (CONTRol Module Header) is used for structuring and execution control of control modules. Function modules, blocks and elements can be included in a control module.



Call CONTRM (C1, C2, C3)

Parameter	Significance	Permissible values
C1	Cyclicity in ms	Permissible values are determined by the possible cycle times of the relevant PC system. These times are specified in the manual for the system concerned.
C2	Place in the cycle time table	Permissible values are determined by the relation to other execution units with the same cycle time. The max value is determined by the number of possible places with the same cycle time. The system selects a free place with the lowest number if no value is specified at entry.
C3	Currently not used	

Terminal Description

No	Name	Type	Description
1	ON	IB	Control input which is to be set (to 1) with normal execution.
2	SINGLE	IB	If input ON and R are 0 the elements in the control module can be executed once by setting SINGLE .
3	R	IB	Reset. Input for clearing of the elements in the control module.
5	RUN	OB	RUN indicates that the elements in the control module are executed.
6	MODP	OB	MODify Permission . Output that indicates if the module may be modified from service aids.

Function

The control module header CONTRM is a superior execution controlling element for a control module. The call parameter *C1* is used to specify how often the control module is to be executed and call parameter *C2* is used to specify the place in the cycle time table on which the execution sequence of execution units with the same cycle time is based. When and how the control module is to be executed is determined with the control inputs ON, SINGLE and R.

Normal Execution

The input ON is to be set with normal execution and the control module is then executed in accordance with the call parameters *C1* and *C2*. If the ON input is reset after execution of the control module, the calculated data remains until the next time the control module is executed. The ON input overrides the SINGLE input, that is, if ON is set SINGLE has no effect. The execution is performed in three steps:

1. Entry of variables from the data base and from modules with higher priority.
2. Element execution.
3. Reading of variables to the data base and to modules with higher priority.

SINGLE Execution

If the SINGLE input is set when the ON input is reset, the control module is executed once in accordance with normal execution.

Clearing

If input R is set, the control module is executed in the reset mode. This means that all outputs of the elements within the control module are given original values which in most cases are the 0-value of the data. Reading to the data base is performed with data value=0 for all data types. Input R overrides the inputs ON and SINGLE.

RUN

Output RUN is set only if normal execution is in progress, that is, if ON is set, or if the control module is being SINGLE executed. With SINGLE execution, the RUN output is set during one cycle only.

MODP

The control module header contains a built in check of the right to change, MODP. If the changing right is deactivated (MODP=0), the possibility of introducing changes in the control module function from service aids is blocked. However, blocking can still be entered and operational parameters can be changed. The changing right is activated and deactivated from service aids with special commands.

Blocking

The execution of a control module can be blocked in different ways from a service aid.

- All execution of the control module including data exchange with the data base is blocked with the command BL<module identity>(BLoCk).
- Reading to the data base of the data base variables included in the control module is blocked with the command BL DB,<module identity>(BLoCk DataBase).
- The control module and data to the data base are first cleared (Reset execution) and execution is then blocked with the command BLRS<module identity>(BLoCk and ReSet).
- Output data to the data base for the control module is first cleared after which further reading is blocked by means of the command BLRS DB,<module identity>(BLoCk and ReSet DataBase).
- Blocking can be removed with the command DBL<module identity>(DeBLoCk).

Function Header

FUNCM

Summary

FUNCM (FUNCTION Module) is used for structuring a PC program.



PC Element FUNCM

Call FUNCM

Function

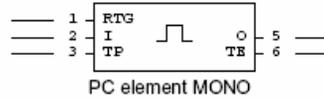
The purpose of FUNCM is to control the arrangement of the documentation. The element cannot affect the execution. A function module can be used to provide a subdivision of a PC program, a control module, a slave or a sequence step in several functionally associated parts. A function module can contain a control module, slave sequence or a new function module.

Monostable

MONO

Summary

The mono function MONO can be used for time limiting of operation of outputs and automatic functions, impulse extension, stall alarm function, etc.



Call MONO

Terminal Description

No	Name	Type	Description
1	RTG	IB	ReTrigG. Input for selection of if the MONO function is to be retriggerable or not. If RTG is set, a retriggerable function is obtained.
2	I	IN	Input. Input for start of the MONO function when the input changes from 0 to 1.
3	TP	IT	Time Pulse. Input for setting of pulse time.
5	O	OB	Output. Output which is set when the MONO function starts and resets (to 0) when the time set has elapsed.
6	TE	OT	Time Elapsed. Output for time which has elapsed when O is set. When the time set (TP) has elapsed TE will stop.

Function

A memory is set when the input I is set. The output then goes to 1, see function diagram. When the time set in the timer has elapsed, the memory is cleared and the output O goes to 0.

MONO Function, Not Retriggerable

If the input RTG is reset, a MONO function which is not retriggerable is obtained. If a new pulse is obtained at the input I before the time set in the timer has elapsed, it does not affect the timer. Only when the time set has elapsed and the output O is reset can the MONO function be restarted by the input I going from 0 to 1.

Motor Controller

MOTCON

Summary

The PC element MOTCON forms part of the functional unit MOTCON (MOToR CONtroller). The element is used with the data base element MOTCON for controlling motors. More information can be found in the manual *Functional Units part 6, MOTCON, VALVECON*.

MOTCON (C1, C2, C3, C4, C5, C6)		
1	PARAM	RESULT 36
		RMORD 38
15	ME	NOINT 39
16	M1	TRIP 40
17	M2	
18	M3	
19	M4	
20	IC1	
21	IC2	
22	IB1	
23	IB2	
24	IB3	
25	IB4	
26	IBF	
27	IA	
28	T1	BLK 41
29	T2	RFS 42
30	T3	
31	STF	
32	START	SO1 43
33	STOP	SACK 44
34	ACK1	RUN 45
35	MC	SEQ 46
51	SEL1	SO2 55
52	SEL2	C1 DCH 56
53	ACK2	
54	T4	
61	TST1	
62	TST2	C2
63	TSTF	
71	LE	LOC 75
72	L1	C3
73	L2	
74	L0	
81	MAN	INDM 86
82	AUTO	INDA 87
83	A1	C4
84	A2	
85	A0	
91	V1	C5
92	V2	
93	V2F	
101	X1	C6 Y1 105
102	X2	Y2 106
103	ALENX1	Y3 107
104	ALENX2	

PC element MOTCON

Call MOTCON (C1, C2, C3, C4, C5, C6)

The element consists of one basic part which gives a complete motor controller in its basic form. This part may be complemented by optional extra functions with the call parameters C1–C6.

Parameter	Significance	Permissible values
C1	Selection of forward/backward (high/low) function.	0 .. 1
C2	Selection of test run function.	0 .. 1
C3	Selection of function for control from a local control panel.	0 .. 1
C4	Selection of auto function (for example, run between limit positions).	0 .. 1
C5	Selection of function for start interlocked sensors.	0 .. 1
C6	Selection of function for external indication/alarm and external control via operator dialog.	0 .. 1

Terminal Description

No	Name	Type	Description
1	PARAM	IA32	PARAM eter. Parameters from the object data base element MOTCON, terminal PC_PARAM
15	ME	IB	M circuit supervision Enable. Input for enabling alarm from control circuit.
16	M1	IB	Input for control voltage.
17	M2	IB	Input for bimetal relay.
18	M3	IB	Input for stop from motor location.
19	M4	IB	Input for safety supervision.
20	IC1	IB	Interlock C1 . Operation interlock (not deblockable).
21	IC2	IB	Interlock C2 . Operation interlock (not deblockable).
22	IB1	IB	Interlock B1 . Operation interlock ⁽¹⁾ ⁽²⁾ .
23	IB2	IB	Interlock B2 . Operation interlock(2).
24	IB3	IB	Interlock B3 . Start/operation interlock(1)(2).
25	IB4	IB	Interlock B4 . Start/operation interlock(2).
26	IBF	IB	Interlock B Function. Control input for IB3 and IB4. If IBF is set to 1, IB3 and IB4 work as start interlocks.
27	IA	IB	Interlock A . Operation interlock(2).
28	T1	IT	Time 1 . Input for pulse time for start order.
29	T2	IT	Time 2 . Input for maximum delay time of contactor response.
30	T3	IT	Time 3 . Input for time for delayed activation of V1 and V2. (This presupposes that call parameter C5=1.)
31	STF	IB	ST art Function. Input for control function for direction change. Set STF=1. STF=0 is not implemented.
32	START	IB	Input for start order.

Terminal Description

No	Name	Type	Description
33	STOP	IB	Input for stop order. STOP=0 causes stop.
34	ACK1	IB	ACK nowledge 1. Input for acknowledgement of SO1 (start acknowledgement).
35	MC	IR	M otor C urrent. Input for motor current.
36	RESULT	OA12	Output for results to the data base element MOTCON, terminal PC_RES.
38	RMORD	OI	R eset M anual O RDer. Output for clearing activation order in the object data base element MOTCON, terminal MORD.
39	NOINT	OB	NO INT erlock. Output which is set to 1 when the object is not interlocked and no remaining or unacknowledged faults exist.
40	TRIP	OB	Output which indicates an error in a control circuit, tripped supervision (V1, V2), contactor fault or external alarm (X1, X2).
41	BLK	OB	B Lo K ed. Output which is set to 1 when the point of control is STANDBY.
42	RFS	OB	R eady F or S tart. Output which is set to 1 when IC1zIC2 and IB1zIB4 are all 1 and (when the object is not in operation mode TEST) there are no unacknowledged or remaining faults.
43	SO1	OB	S tart O rd er 1. Output to contactor.
44	SACK	OB	S tart ACK nowledge. Output which indicates that the object has been started and the alarm is activated.
45	RUN	OB	Output for operation acknowledgement. (SO1 and ACK1 are set to 1.)
46	SEQ	OB	SEQ uence. Indication of point of control SEQUENCE.
51 ⁽³⁾	SEL1	IB	SEL ect start order 1. Preselection of start order 1.(Does start the object.)
52 ⁽³⁾	SEL2	IB	SEL ect start order 2. Preselection of start order 2. (Does not start the object.)
53 ⁽³⁾	ACK2	IB	ACK nowledge 2. Input for acknowledgement of SO2 (start acknowledgement).
54 ⁽³⁾	T4	IT	T ime 4. Input for minimum time for switching start orders (Change of direction).
55 ⁽³⁾	SO2	OB	S tart O rd er 2. Output to contactor.
56 ⁽³⁾	DCH	OB	D irection CH ange. Output which, when set to 1, indicates that a change of start order is in progress.
61 ⁽³⁾	TST1	IB	T est S Tart 1. Input for start order 1 from motor location.
62 ⁽³⁾	TST2	IB	T est S Tart 2. Input for start order 2 from motor location.
63 ⁽³⁾	TSTF	IB	T est S Tart F unction. Input for self locking for TST1 and TST2. Self locking is obtained when TSTF is set to 1.
71 ⁽³⁾	LE	IB	L ocal E nable. Input for selection of point of control LOCAL.
72 ⁽³⁾	L1	IB	L ocal start order 1. Input for local start order 1.
73 ⁽³⁾	L2	IB	L ocal start order 2. Input for local start order 2.
74 ⁽³⁾	L0	IB	L ocal stop order. Input for local stop order. L0 is active low.

Terminal Description

No	Name	Type	Description
75(3)	LOC	OB	LOC al. Indication of point of control LOCAL.
81(3)	MAN<	IB	MAN ual. Input for switching to control mode MANUAL.
82(3)	AUTO	IB	AUTO matic. Input for switching to control mode AUTO. Enables the inputs A1, A2 and A0. Dynamic input.
83(3)	A1	IB	Auto 1 . Input for auto start order 1.
84(3)	A2	IB	Auto 2 . Input for auto start order 2.
85(3)	A0	IB	Auto 0 . Input for auto stop order 0.
86(3)	INDM	OB	IND ication MAN ual. Output for indication of control mode MANUAL.
87(3)	INDA	OB	IND ication AUTO . Output for indication of control mode AUTO.
91(3)	V1	IB	Input for tripping (active low), to be connected to an operation monitor. The input is disabled for time T3 after start.
92(3)	V2	IB	Input for tripping (active low), to be connected to an operation monitor. The input is disabled for time T3 after start. It is further required that the input V2F is set to 1 for tripping to be possible.
93(3)	V2F	IB	V2 Function . Input which must be set to 1 if tripping of V2 is to be possible.
101(3)	X1	IB	EX ternal alarm/indication 1. Input for external alarm/indication. (IND107.)
102(3)	X2	IB	EX ternal alarm/indication 2. Input for external alarm/indication. (IND111.)
103(3)	ALENX1	IB	AL arm EN able X1 . Input which, when set to 1, gives alarm function at X1.
104(3)	ALENX2	IB	AL arm EN able X2 . Input which, when set to 1, gives alarm function at X2.
105(3)	Y1	OB	Output controllable from dialog.
106(3)	Y2	OB	Output controllable from dialog.
107(3)	Y3	OB	Output controllable from dialog.

(1) May be disabled via operator dialog.

(2) Disabled in operation mode TEST.

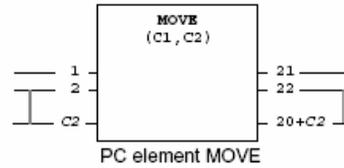
(3) These terminals are selected with the call parameters C1-C6 respectively

Data Copying

MOVE

Summary

MOVE copies the value at the input to the output and may be used to, for example, copy the value from one location in the data base to another.



Call MOVE (C1, C2)

Parameter	Significance	Permissible values
C1	Data type	B, I, IL, R, T, TR
C2	Number of inputs and outputs	1 .. 19

Terminal Description

No	Name	Type	Description
1	–	IC1	Input for value 1.
2	–	IC1	Input for value 2.
:			
C2	–	IC1	Input for value C2.
21	–	OC1	Output for value 1.
22	–	OC1	Output for value 2.
:			
20+C2	–	OC1	Output for value C2.

Function

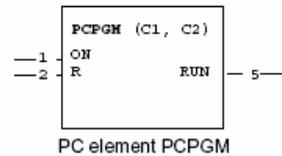
The element copies the values at the inputs to the respective output. The type of the data to be moved is determined with the call parameter C1 and the number of values moved is determined with the call parameter C2.

Program Header

PCPGM

Summary

The program header PCPGM is used for the structuring and execution control of the application program of a PC system.



Call PCPGM (C1, C2)

C1	Cyclicty in ms	Permissible values are determined by the possible cycle times of the relevant PC system. These times are specified in the manual for the system concerned.
C2	Place in the cycle time table	Permissible values are determined by the relation to other execution units with the same cycle time. The maximum value is determined by the number of possible places with the same cycle time. The system selects a free place with the lowest number if no value is specified at entry.

Terminal Description

No	Name	Type	Description
1	ON	IB	Control input which is to be set (to 1) with normal execution.
2	R	IB	Reset. Clearing of the execution units of the PC program.
5	RUN	OB	RUN indicates that the execution units in the PC program may be executed.

Function

A PC program is the highest level in the PC program structure. The program is intended to perform a complete control function. The program header PCPGM is used to control the enabling, disabling and resetting of the complete PC program, irrespective of subordinate execution units. The call parameter C1 specifies how often the program header is to be executed and the call parameter C2 is used to specify the position in the cycle time table on which the execution order of the execution units with the same cycle time is based.

PCPGM must be given a cyclicty from the table for the interpreter with the highest priority. This is required for changes at the inputs to PCPGM to have a direct effect on subordinate execution units. The program header cannot have directly subordinate elements. The control inputs ON and R are used to control when and how the complete PC program with subordinate execution units is to be executed. PCPGM itself is always executed, irrespective of the inputs ON and R.

Normal Execution

The input ON must be set (to 1) for the normal execution of subordinate execution units to be possible. At the start of the execution of subordinate execution units, a check is performed to ensure that the program header has RUN status.

Clearing

If the input R is set, the complete PC program is executed in reset mode. This means that all outputs on the elements in the slave modules are given initial values, which in most cases are the 0-value of the data concerned. Reading to the data base is performed with data value 0 for all data types. Input R overrides input ON.

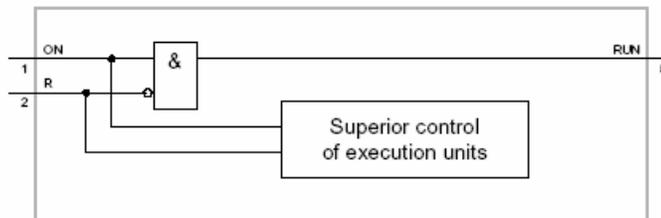
RUN

Output RUN is set only if normal execution is permissible, that is, if the ON input is set and the R input is reset (to 0).

Blocking

A program with subordinate execution units can be blocked in several different ways from a service aid.

- The command BL<module identity>(BLoCk) blocks all execution of the PC program except the program header, but inhibits all data exchange with the data base.
- The command BL DB,<module identity>(BLoCk Data Base) blocks reading to the data base of the data base variables which occur in the PC program.
- The command BLRS<module identity>(BLoCk and ReSet) first clears the complete PC program (Reset execution) and then blocks all execution of the program.
- The command BLRS DB,<module identity>(BLoCk and ReSet Data Base) first clears the output data to the data base for the complete PC program and then blocks all further reading.
- The command DBL<module identity>(DeBLoCk) is used to cancel blockings.



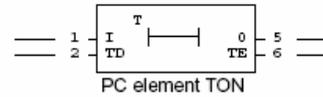
Function diagram

Time Delay On/ Time Delay Off

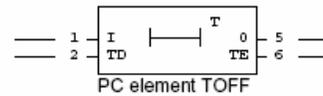
TON/ TOFF

Summary

Time delay on TON (Timer ON-delay) and time delay off TOFF (Timer OFF-delay) of Boolean variables for use in connection with combined expressions.



Call TON
TOFF



Terminal Description

No	Name	Type	Description
1	I	IB	Input for start of time delay.
2	TD	IT	Time Delay. Input for preset time. Max 23h 59m 59.999s.
5	O	OB	Output. Output which is set (TON) or reset (TOFF) when the preset time has elapsed.
6	TE	OT	Time Elapsed. Output which specifies how long I has been set (TON) or reset (TOFF). When the preset time (TD) has elapsed, TE stops.

Function

TON

The input variable to the input I is obtained delayed at output O when the input variable changes from 0 to 1. The output signal returns immediately the input variable changes from 1 to 0.

TOFF

The input variable to the input I is obtained delayed at output O when the input variable changes from 1 to 0. The output signal is set immediately the input variable changes from 0 to 1.

Valve Controller

VALVECON

Summary

The PC element VALVECON forms part of the functional unit VALVECON (VALVE CONTroller). The element is used with the data base element VALVECON for controlling valves. Further information can be found in the manual *Functional Units part 6, MOTCON, VALVECON*.

VALVECON (C1, C2)			
1	PARAM	RESULT	35
15	FLT1	RMORD	36
16	FLT2	NOINT	37
17	IC1	TEST	38
18	IC2	NORD	39
19	IB1	BLK	40
20	IB2	IPOS	41
21	IB3	RDY	42
22	IB4		
23	IBF		
24	IA		
25	T1	OPN	43
26	T2	OPNP	44
27	FINV	OPNL	45
28	OPEN	CLS	46
29	CLOSE	CLSP	47
		CLSL	48
30	TOPN	SBQ	49
31	TCLS		
32	LSOPN		
33	LSCLS		
34	LSMEM		
51	LE	LOC	54
52	LOPN	C1	
53	LCLS		
61	MAN	INDM	65
62	AUTO	INDA	66
63	AOPN	C2	
64	ACLS		

PC element VALVECON

Call VALVECON (C1, C2)

The element consists of a basic part which forms a complete basic valve controller. This function may be extended with optional extra functions with the call parameters C1 and C2 according to the table below.

Parameter	Significance	Permissible values
C1	Selection of function for local control	0 .. 1
C2	Selection of function for control mode AUTO	0 .. 1

Terminal Description

No	Name	Type	Description
1	PARAM	IA32	PARAM eter. Parameters from the object data base element VALVECON, terminal PC_PARAM
15	FLT1	IB	FauLT 1 . Input for external error 1.
16	FLT2	IB	FauLT 2 . Input for external error 2.
17	IC1	IB	Interlock C1 . Operation interlock (not deblockable).
18	IC2	IB	Interlock C2 . Operation interlock (not deblockable).
19	IB1	IB	Interlock B1 . Operation interlock ⁽¹⁾⁽²⁾ .
20	IB2	IB	Interlock B2 . Operation interlock(2).
21	IB3	IB	Interlock B3 . Start/Operation interlock(1)(2).
22	IB4	IB	Interlock B4 . Start/Operation interlock .
23	IBF	IB	Interlock B Function . Control input for IB3 and IB4. If IBF is set to 1 IB3 and IB4 works as start interlocks.
24	IA	IB	Interlock A . Operation interlock(2).
25	T1	IT	Time 1 . Input for time for OPEN/CLOSE pulse.
26	T2	IT	Time 2 . Input for maximum travel time.
27	FINV	IB	Function INVersion . Input for home position. FINV=0 gives home position closed. FINV=1 gives home position open.
28	OPEN	IB	Input for open order.
29	CLOSE	IB	Input for close order.
30	TOPN	IB	Test OPeN . Input for open order in TEST mode.
31	TCLS	IB	Test CLoSe . Input for close order in TEST mode.
32	LSOPN	IB	Limit Switch OPeN . Input for limit position open.
33	LSCLS	IB	Limit Switch CLoSed . Input for limit position closed.
34	LSMEM	IB	Limit Switch MEMory . The function is not implemented.
35	RESULT	OA12	Output for results to the data base element VALVECON, terminal PC_RES.
36	RMORD	OI	Reset Manual ORDer . Output for resetting operation order in the object data base element VALVECON, terminal MORD.
37	NOINT	OB	NO INTERlock . Output which is set to 1 when the object is not interlocked and no external fault reasons (FLT1 or FLT2) exist.
38	TEST	OB	Output for indication of point of control TEST.
39	NORD	OB	New ORDer . Output for open/close order (pulse).
40	BLK	OB	BLockEd . Output which is set to 1 when the point of control is STANDBY.
41	IPOS	OB	Intermediate POSition . Output for indication of intermediate position.

Terminal Description

No	Name	Type	Description
42	RDY	OB	ReaDY . Output for ready indication.
43	OPN	OB	OPeN . Continuous output for OPEN.
44	OPNP	OB	OPeN Pulse . Pulse output for OPEN (pulse during time T1).
45	OPNL	OB	OPeN Limit . Output for OPEN which is deactivated when LSOPN has been reached.
46	CLS	OB	CLoSe . Continuous output for CLOSE.
47	CLSP	OB	CLoSe Pulse . Pulse output for CLOSE (pulse during time T1).
48	CLSL	OB	CLoSe Limit . Output for CLOSE which is deactivated when LSCLS has been reached.
49	SEQ	OB	Indication of point of control SE quence.
51 ⁽³⁾	LE	IB	Local Enable . Input for selecting point of control LOCAL.
52 ⁽³⁾	LOPN	IB	Local OPeN order. Input for local open order.
53 ⁽³⁾	LCLS	IB	Local CLoSe order. Input for local close order.
54 ⁽³⁾	LOC	OB	LOC al. Indication of point of control LOCAL.
61 ⁽⁴⁾	MAN	IB	MAN ual. Input for switching to control mode MAN.
62 ⁽⁴⁾	AUTO	IB	AUTO matic. Input for switching to control mode AUTO. Dynamic input.
63 ⁽⁴⁾	AOPN	IB	Auto OPeN . Input for auto open order.
64 ⁽⁴⁾	ACLS	IB	Auto CLoSe . Input for auto close order.
65 ⁽⁴⁾	INDM	OB	IND ication MAN ual. Output for indication of control mode MAN
66 ⁽⁴⁾	INDA	OB	IND ication AUTO . Output for indication of control mode AUTO.

- (1) May be disabled via operator dialog
- (2) Disabled in operation mode TEST
- (3) These terminals are selected with the call parameter C1.
- (4) These terminals are selected with the call parameter C2.

[Anexo 7] Elementos DB del lenguaje AMPL

En las siguientes páginas se encuentra una impresión directa del manual ABB de los elementos DB utilizados en el programa.

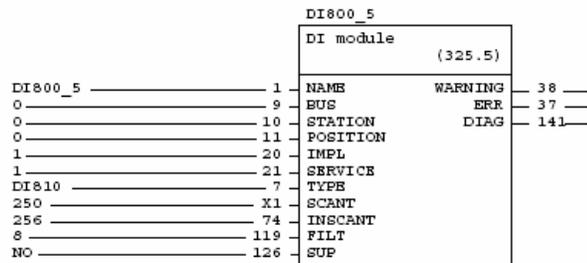
DI module

DI81x, DI82x

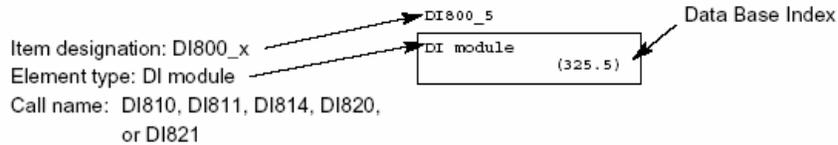
Summary

The DI module data base element specifies a Digital Input hardware module inserted in an S800 I/O station. The data base element is superior to the signal elements associated to the digital input channels in the module.

Overview



Head



Terminal Description

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DI800_x	–	Unique NAME of the I/O module.	Maximum 20 characters.
9	BUS	user	0	–	BUS . Part of Address.	See section "Address terminals BUS, STATION, POSITION AND SUBPOS" in the Introduction.
10	STATION	user	0	–	STATION . Part of Address.	
11	POSITION	user	0	–	POSITION . Part of Address.	

Terminal Description (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
20	IMPL	user	1	B(r)	0=the module is spare. 1=the module is IMPL emented	–
21	SERVICE	dialog	1	B(r/w)	The SERVICE terminal shows wether the module is in service or has been taken out of service.	–
7	TYPE	predef	DI810/ DI811/ DI814/ DI820/ DI821	–	Module TYPE designation: DI810, DI811, DI814, DI820, or DI821	–
X1	SCANT	user	250	–	Allowed SCAN Time values can be found in Introduction, "Allowed SCANT values".	–
74	INSCANT	user	256	–	Fieldbus INput SCAN Time. Allowed values in ms: 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048 and 4096.	–
119	FILT	user	8	–	On/off delay FILT er time in ms: 2 ms, 4, 8 and 16. The signal delay time may vary in the following intervals: 2.3 ms, 4.6 ms, 8.12 ms and 16.24 ms.	–
126	SUP	user	NO	–	Sensor power SUP ervision: YES=enabled NO=not enabled	–
38	WARNING	system	–	B(r)	WARNING indicates a non-fatal error.	–
37	ERR	system	–	B(r)	ERR or indicates fatal errors, such as configuration errors or hardware errors.	–
141	DIAG	system	–	l(r)	DIAG nostics.	See section "S800 I/O module DIAG terminal" in the Introduction.

DIC Calculated

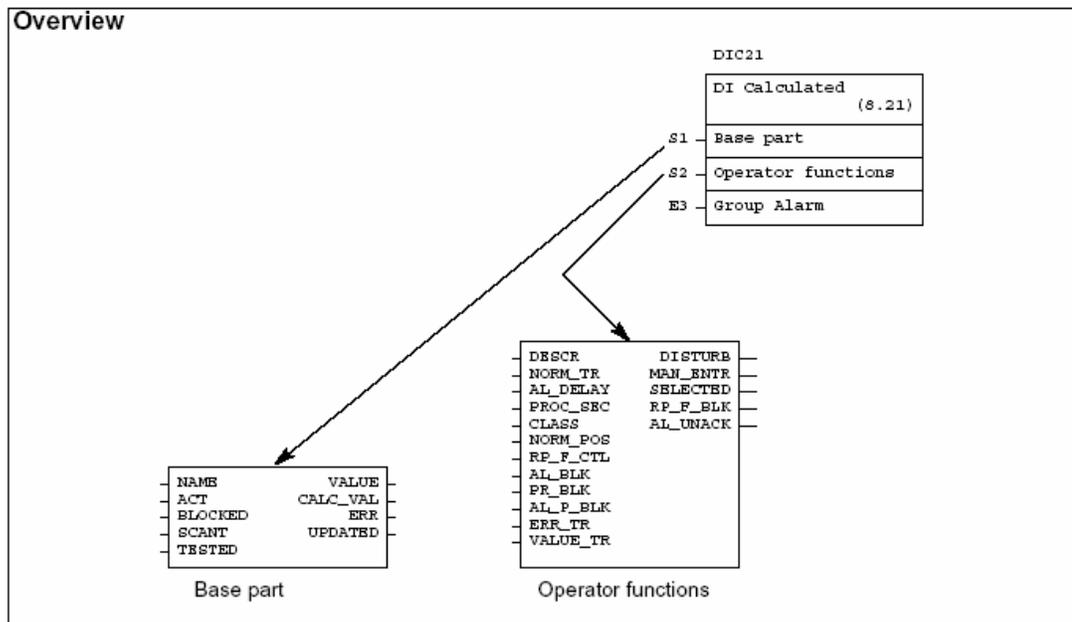
DIC

Summary

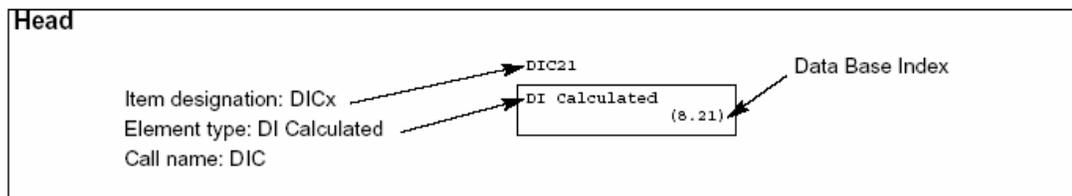
The data values of the DI Calculated data base element defines an internal digital input signal so that the process communication program can treat your calculated signals as if they came from the process. For information about the extension parts of Group Alarm see data base element Group Member.

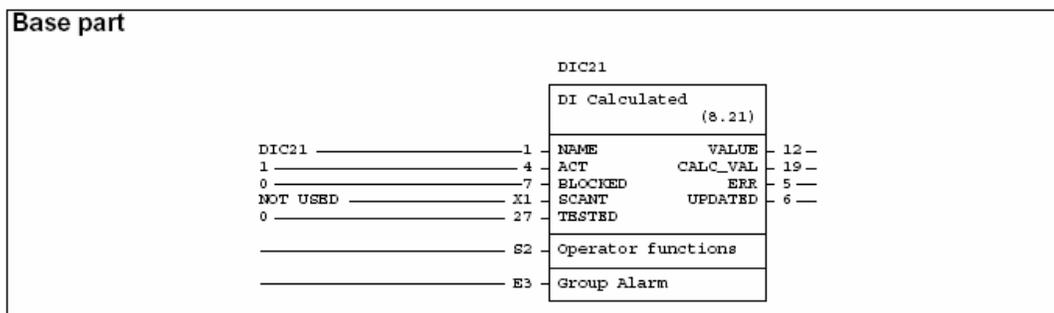
The main purpose is to supply an interface to Operator functions for signals that do not correspond to physical signals, but have been calculated by the system, usually by PC programs.

Overview



Head





Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DICx	–	Each DI Calculated signal must have a unique NAME .	Max. 20 characters. Spaces are not allowed.
4	ACT	user	1	B(r)	1=the signal is ACT ive. 0=the signal is spare.	–
7	BLOCKED	dialog	0	B(r/w)	1=updating of signal value is BLOCKED .	–
X1	SCANT	user	NOT USED	–	Not used. SCAN Time determined by PC program connected to CALC_VAL.	–
27	TESTED	user	0	B(r/w)	Can be set by user to indicate that the signal has been TESTED at start-up.	Does not affect the system.
12	VALUE	system	–	R(r/w)	Signal VALUE .	–
19	CALC_VAL	system	–	R(r/w)	Input connection for the CALC ulated VAL ue from PC-program.	–
5	ERR	system	–	B(r/w)	1=Configuration ERR or.	Can only be reset by correcting the error.
6	UPDATED	system	–	B(r/w)	1=Value has been UPDATED since start-up.	Cannot be affected by user.

Operator functions	
DIC21	
DI Calculated (8.21)	
E1 -	Base part
2 -	DESCR DISTURB 18 -
0 -	NORM_TR MAN_ENTR 8 -
0 -	AL_DELAY SELECTED 9 -
0 -	PROC_SEC RP_F_BLK 17 -
0 -	CLASS AL_UNACK 16 -
0 -	NORM_POS
1 -	RP_F_CTL
0 -	AL_BLK
0 -	PR_BLK
0 -	ALP_BLK
0 -	ERR_TR
0 -	VALUE_TR
E3 -	Group Alarm

Terminal Description, Operator functions

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
2	DESCR	user	-	-	This DESCRIPTION of the signal will be used in pictures and lists in Operator Station.	Maximum 20 characters. You may enter any information regarding the signal.
10	NORM_TR	user	0	B(r)	NORMAL event TREATMENT in Operator Station.	0=no event driven updating in Operator Station.
40	AL_DELAY	user	0	I(r/w)	ALARM DELAY shows delay in seconds.	0 = no delay.
38	PROC_SEC	user	0	I(r/w)	PROCESS SECTION is used for sectioning the alarm handling. Section numbers 1-16.	0=no sectioning. The signal may be presented in lists -1=the signal cannot be selected and cannot be presented in lists.
39	CLASS	user	0	I(r/w)	CLASS subdivides process section. Used by status list function in Operator Station.	-
14	NORM_POS	user	0	B(r/w)	Normal signal value.	Used for alarm and DISTURBANCE calculation purposes.
23	RP_F_CTL	user	1	B(r)	Request for reduced number of reports on repetitive alarm in Operator Station.	-

Terminal Description, Operator functions (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
20	AL_BLK	dialog	0	B(r/w)	1=BLocKing of ALarm indication and event handling in Operator Station.	–
22	PR_BLK	dialog	0	B(r/w)	1=BLocKing of event PRIntout in Operator Station by PC program.	–
21	AL_P_BLK	PC	0	B(r/w)	ALarm Period BLocK. Flag for temporary blocking of alarm indication and event handling in Operator Station by PC program.	–
36	ERR_TR	user	0	–	ERRor TReatment. Pointer to data base element EVENT_TREAT in Operator Station which defines the event handling of signal errors and operator commands.	Recommended settings: 0=No event reporting 2=Event reporting incl. alarm handling.
37	VALUE_TR	user	0	–	VALUE TReatment. Pointer to data base element in EVENT_TREAT in Operator Station which defines the event handling of signal value.	Recommended settings: 0=No event reporting 1=Event reporting, no alarm handling. 2=Event reporting incl. alarm handling.
18	DISTURB	system	–	B(r/w)	DISTURBance. Flag indicating whether a state of alarm exists in element.	Cannot be affected by user.
8	MAN_ENTR	system	–	B(r/w)	1=Flag indicating that the signal VALUE has been MANually ENTeRed by the Operator Station operator.	Cannot be affected by user.
9	SELECTED	system	–	B(r/w)	Flag indicating whether the element has been SELECTED by the Operator Station operator for dialog.	–
17	RP_F_BLK	system	–	B(r/w)	RePeat Flag BLocK. Flag indicating that a repeating alarm is present in the element but that the indication has been blocked.	–
16	AL_UNACK	system	–	B(r/w)	Flag indicating whether an UNACKnowledged ALarm exists in the element.	–

Function

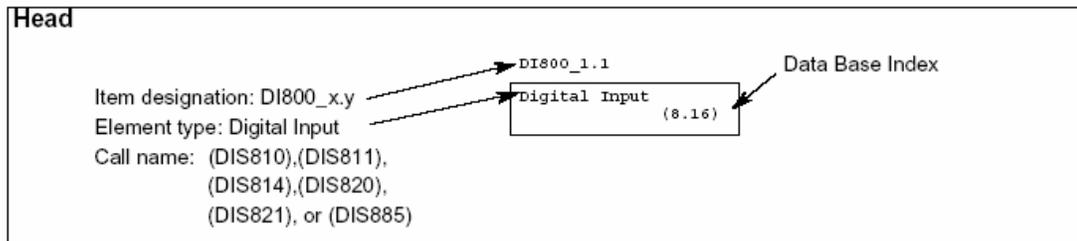
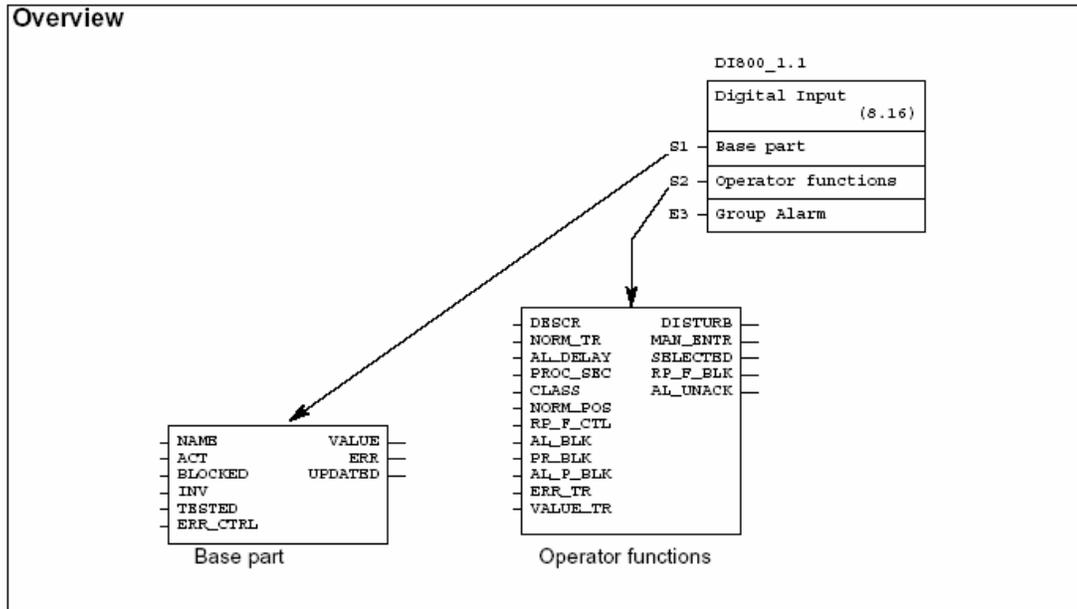
The DI Calculated data base element defines an digital input so that the process communication program can treat calculated signals as if they came from the process. For example, the PC program may calculate a signal from several process signals using a logical expression formed by PC elements, and present it in a DI Calculated data base element so that it looks to the Advant Station 500 Series Operator Station as if it was a true input.

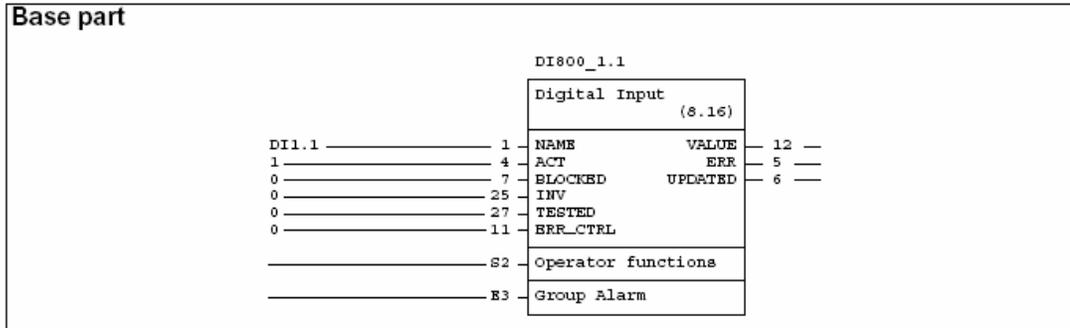
Digital Input

DIS81x, DIS82x, DIS885

Summary

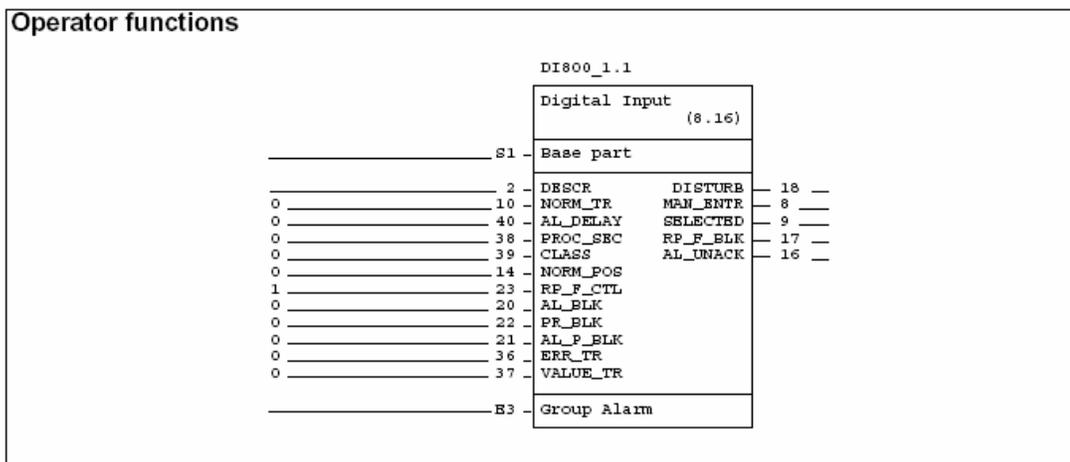
The Digital Input signal data base element is subordinate to the DI module data base element specifying a DI810, DI811, DI814, DI820, DI821, or DI885 hardware module.





Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DI800_x.y	-	Each Digital Input signal must have a unique NAME .	Max. 20 characters. Spaces are not allowed.
4	ACT	user	1	B(r)	1=the signal is ACT ive. 0=the signal is spare.	-
7	BLOCKED	dialog	0	B(r/w)	1=updating of signal value is BLOCKED .	-
25	INV	user	0	B(r/w)	1=the signal value is IN verted.	-
27	TESTED	user	0	B(r/w)	Can be set by user to indicate that the signal has been TESTED at start-up.	Does not affect the system.
11	ERR_CTRL	user	0	B(r)	ERR or ConTR oL. 0=Value is frozen when error occurs. 1=Value is set to the inverted value of NORM_POS when error occurs.	-
12	VALUE	system	-	B(r/w)	Signal VALUE .	-
5	ERR	system	-	B(r/w)	1=hardware or configuration ERR or.	-
6	UPDATED	system	-	B(r/w)	1=system indicates that VALUE has been UPDATED .	Cannot be affected by user.



Terminal Description, Operator functions

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
2	DESCR	user	—	—	This DESCR ption of the signal will be used in pictures and lists in Operator Station.	Maximum 20 characters. You may enter any information regarding the signal.
10	NORM_TR	user	0	B(r)	1= NORM al event driven updating on displays and lists in Operator Station.	0=no event driven updating in Operator Station.
40	AL_DELAY	user	0	l(r/w)	AL arm DEL AY shows delay in seconds	0 = no delay.
38	PROC_SEC	user	0	l(r/w)	PROC ess SEC tion is used for sectioning the alarm handling. Section numbers 1-16.	0=no sectioning. The signal may be presented in lists -1=the signal cannot be selected and cannot be presented in lists.
39	CLASS	user	0	l(r/w)	CL ASS subdivides process section. Used by status list func. in Operator Station	—
14	NORM_POS	user	0	B(r/w)	NORM al POS ition. Normal signal value.	Used for alarm and DISTUR Bance calculation purposes.
23	RP_F_CTL	user	1	B(r)	RePe at Fail ConT rol. Request for reduced number of reports of repetitive alarms.	—

Terminal Description, Operator functions (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
20	AL_BLK	dialog	0	B(r/w)	1=BLockKing of ALarm indication and event handling in Operator Station.	–
22	PR_BLK	dialog	0	B(r/w)	1=BLockKing of event PRIntout in Operator Station.	–
21	AL_P_BLK	PC	0	B(r/w)	ALarm Period BLock. Flag for temporary blocking of alarm indication and event handling in Operator Station by PC program.	–
36	ERR_TR	user	0	–	ERRor TRreatment. Pointer to data base element EVENT_TREAT which defines the event handling in Operator Station of signal errors.	Recommended settings: 0=No event reporting 2=Event reporting incl. alarm handling.
37	VALUE_TR	user	0	–	VALUE TRreatment. Pointer to data base element in EVENT_TREAT which defines the event handling in Operator Station of signal value changes.	Recommended settings: 0=No event reporting 1=Event reporting, no alarm handling. 2=Event reporting incl. alarm handling.
18	DISTURB	system	–	B(r/w)	DISTURBance. Flag indicating whether a state of alarm exists in element.	–
8	MAN_ENTR	system	–	B(r/w)	1=Flag indicating that the signal value has been MANually ENTeRed by the Operator Station operator.	–
9	SELECTED	system	–	B(r/w)	Flag indicating whether the element has been SELECTED by the Operator Station operator for dialog.	–
17	RP_F_BLK	system	–	B(r/w)	RePeat Fail BLock. Flag indicating that a repeating alarm is present in the element but that the indication has been blocked.	–
16	AL_UNACK	system	–	B(r/w)	Flag indicating whether an UNACKnowledged ALarm exists in the element.	–

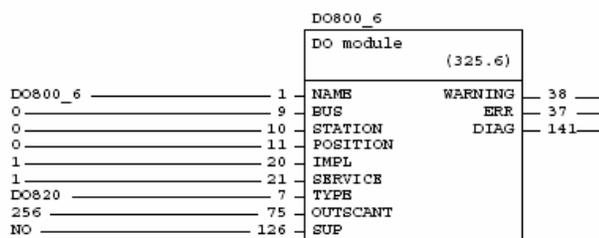
DO module

DO81x, DO82x

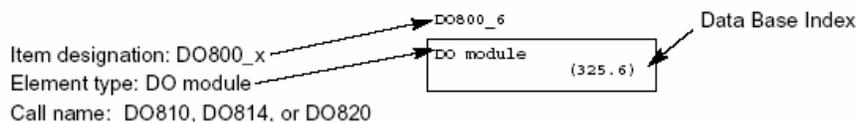
Summary

The DO module data base element specifies an Digital Output hardware module inserted in an S800 I/O station. The data base element is superior to the signal elements associated to the digital output channels in the module.

Overview



Head



Terminal Description

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DO800_x	–	Unique NAME of the I/O module.	Maximum 20 characters.
9	BUS	user	0	–	BUS . Part of Address.	See section "Address terminals BUS, STATION, POSITION AND SUBPOS" in the Introduction.
10	STATION	user	0	–	STATION . Part of Address.	
11	POSITION	user	0	–	POSITION . Part of Address.	
20	IMPL	user	1	B(r)	0=the module is spare. 1=the module is IMPL emented	–

Terminal Description (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
21	SERVICE	dialog	1	B(r/w)	The SERVICE terminal shows whether the module is in service or has been taken out of service.	–
7	TYPE	predef	DO810/ DO814/ DO820	–	Module TYPE designation: DO810, DO814, or DO820	–
75	OUTSCANT	user	256	–	Fieldbus OUT put SCAN Time. Allowed values in ms: 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048 and 4096.	–
126	SUP	user	NO	–	Sensor power SUP ervision: YES=enabled NO=not enabled	–
38	WARNING	system	–	B(r)	WARNING indicates a non-fatal error.	–
37	ERR	system	–	B(r)	ERR or indicates fatal errors, such as configuration errors or hardware errors.	–
141	DIAG	system	–	l(r)	DIAG nostics.	See section "S800 I/O module DIAG terminal" in the Introduction.

Function

The output lines to the process are connected in the termination unit. Galvanic isolation is obtained through optocouples or relays.

A red F (Fault) LED indicates a fault or uninitiated module, a green R (Run) LED indicates module in operational mode and a yellow W (Warning) LED indicates warning (error in output power supply).

Yellow LED's indicate the state of the output signals.

Refer to the manuals *S800 I/O User's Guide* for more detailed information regarding the module.

Termination Units for the DO810 and DO820 modules

Module	Termination Units
DO810, DO814	TU810, TU812, TU814, TU830
DO820	TU811, TU831, TU836

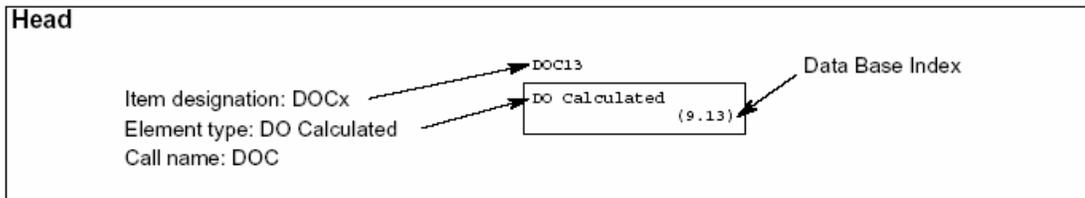
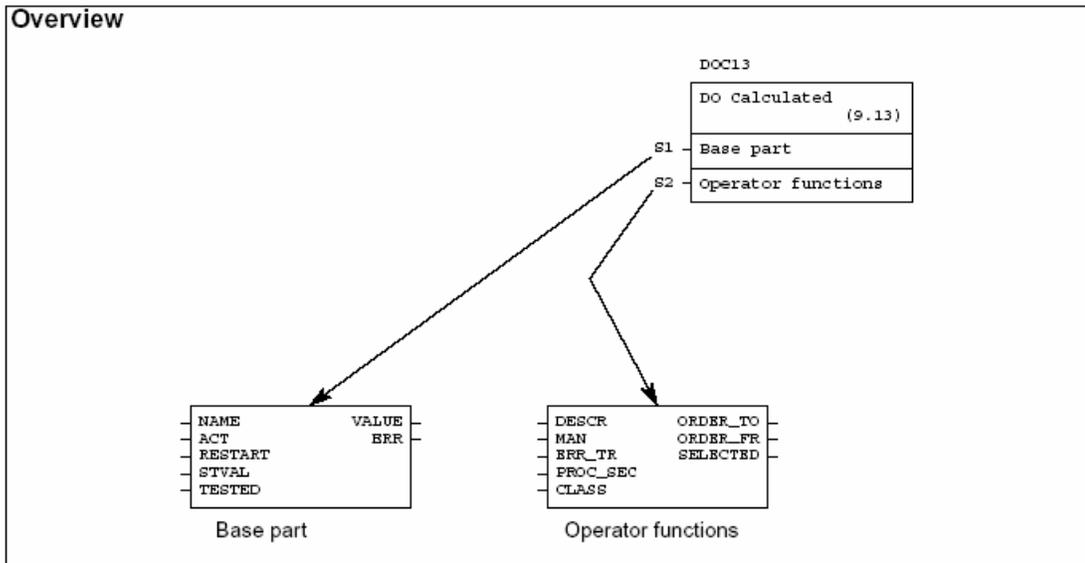
DO Calculated

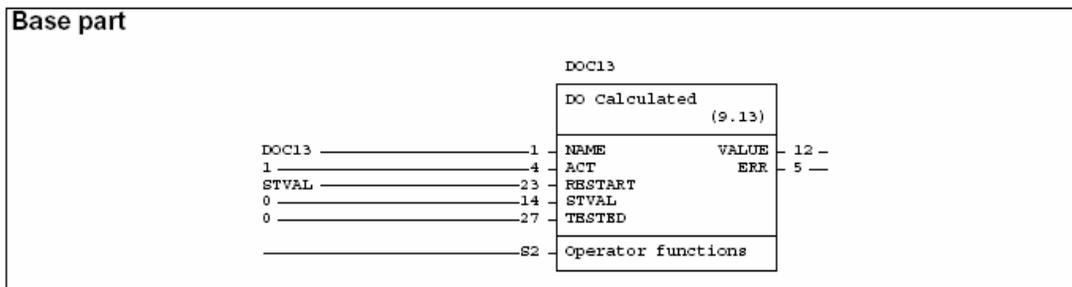
DOC

Summary

The data values of the DO Calculated data base element is to supply Operator functions – similar to those for a digital output – to any boolean value.

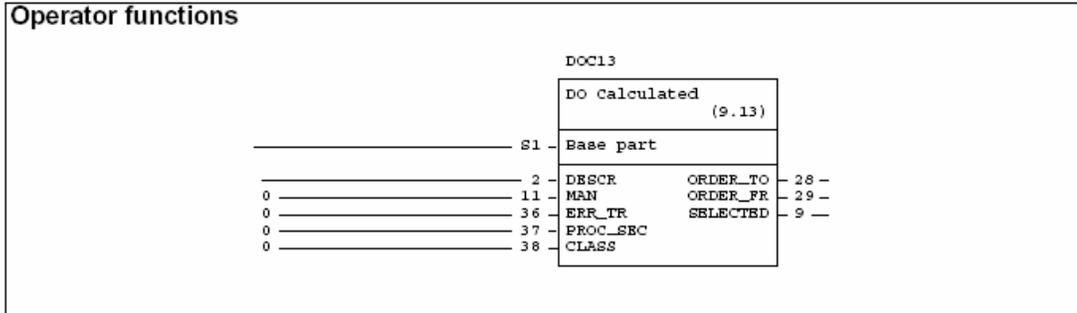
The DO Calculated element holds data for these functions.





Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DOCx	-	Each DO Calculated signal must have a unique NAME .	Max. 20 characters. Spaces are not allowed.
4	ACT	user	1	B(r)	1=the signal is ACT ive. 0=the signal is spare.	-
23	RESTART	user	STVAL	B(r/w)	RESTART selects output value at system restart. STVAL=restart value defined by terminal STVAL VALUE=the last value is selected as restart value	-
14	STVAL	user	0	B(r/w)	ST art VAL ue for output.	-
27	TESTED	user	0	B(r/w)	Can be set by user to indicate that the signal has been TESTED at start-up.	Does not affect the system.
12	VALUE	system	-	R(r/w)	Signal VAL UE.	-
5	ERR	system	-	B(r/w)	1=Configuration ERR or.	ERR or is reset only by correcting the error.



Terminal Description, Operator functions

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
2	DESCR	user	-	-	This DESCR ption of the signal will be used in pictures and lists in Operator Station.	Maximum 20 characters. You may enter any information regarding the signal.
11	MAN	dialog	0	B(r/w)	Flag indicating that MAN ual control by Operator Station operator has been selected.	0=controlled and updated by PC-program.
36	ERR_TR	user	-	-	ERRor TReatment.	Not used.
37	PROC_SEC	user	0	I(r/w)	PRO C ess SE C tion is used for sectioning the object handling. Section numbers 1-16.	0=no sectioning. The signal may be presented in lists -1=the signal cannot be selected and cannot be presented in lists.
38	CLASS	user	0	I(r/w)	CLASS subdivides process section. Used by status list function in Operator Station.	-
28	ORDER_TO	system	-	B(r/w)	ORDER TO. Flag carrying "ON", "OPEN" etc orders from Operator Station system to PC program.	Can be read and then reset by PC program.
29	ORDER_FR	system	-	B(r/w)	ORDER FRom. Flag carrying "OFF", "CLOSE" etc orders from Operator Station system to PC program.	Can be read and then reset by PC program.
9	SELECTED	system	-	B(r/w)	Flag indicating whether the element has been SELECTED by the Operator Station operator for dialog.	-

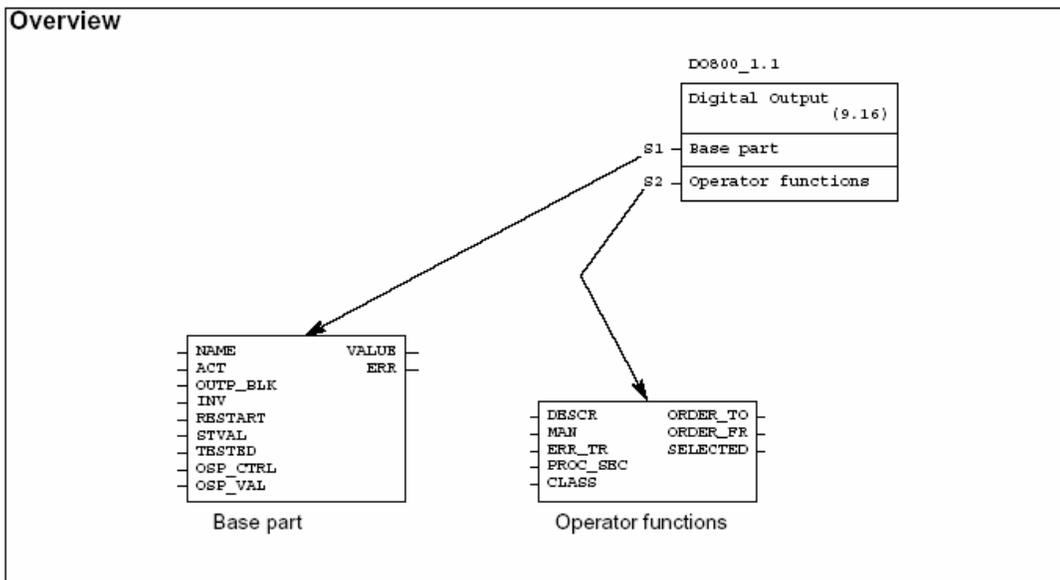
Digital Output

DOS81x, DOS82x

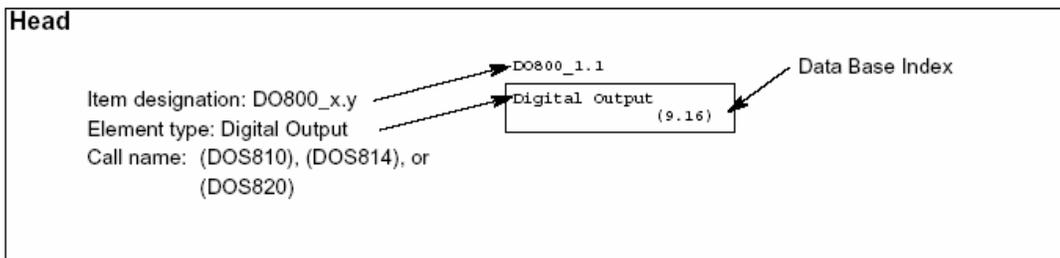
Summary

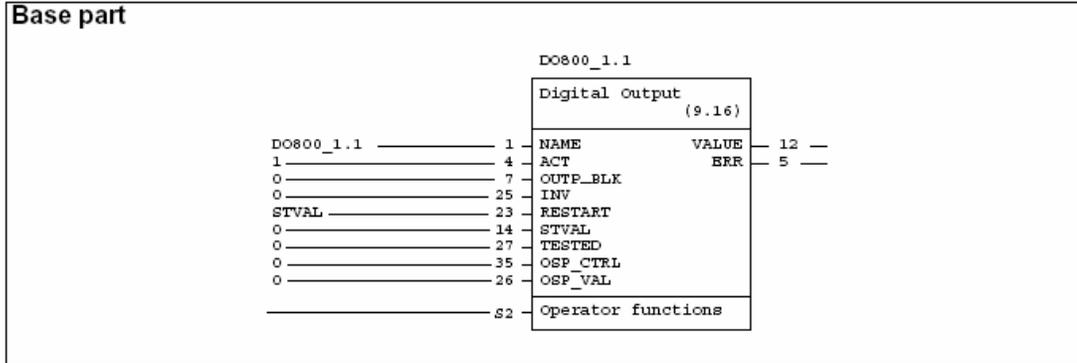
The Digital Output signal data base element is subordinate to the DO module data base element specifying a DO810, DO814, or DO820 hardware module.

Overview



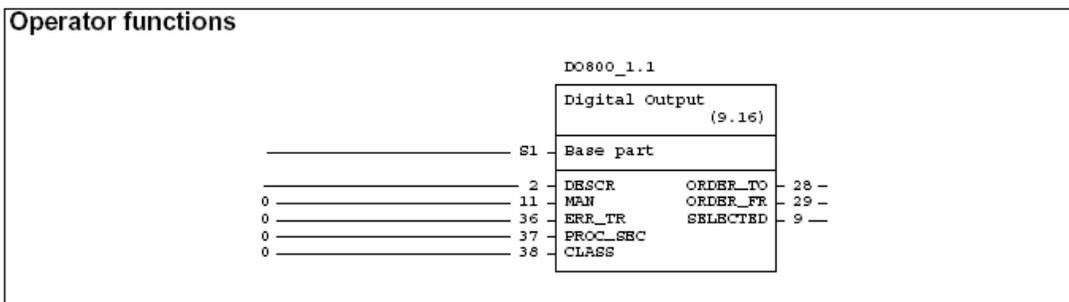
Head





Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	DO800_x.y	–	Each Digital Output signal must have a unique NAME .	Maximum 20 characters. Spaces are not allowed.
4	ACT	user	1	B(r/w)	1=the signal is ACT ive. 0=the signal is spare.	–
7	OUTP_BLK	user	0	B(r/w)	1=board OUTP ut is BL ockEd.	VALUE will still be updated.
25	INV	user	0	B(r/w)	1=the signal value is IN Verted.	–
23	RESTART	user	STVAL	B(r/w)	Selects RESTART output value. STVAL=Start value according to STVAL terminal VALUE=Start value equals last value	–
14	STVAL	user	0	B(r/w)	ST art VAL ue for output.	–
27	TESTED	user	0	B(r/w)	Can be set by user to indicate that the signal has been TESTED at start-up.	–
35	OSP_CTRL	user	0	B(r/w)	Outputs Set as Predetermined: 0=keep current value 1=set to OSP_VAL	–
26	OSP_VAL	user	0	B(r/w)	OSP VAL ue to set if OSP_CTRL is set to 1.	–
12	VALUE	system	–	R(r/w)	Output signal VAL UE (before inversion).	–
5	ERR	system	–	B(r/w)	ERR or. 1=hardware or configuration error.	–



Terminal Description, Operator functions

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
2	DESCR	user	-	-	This DESCR ption of the signal will be used in pictures and lists in Operator Station.	Maximum 20 characters. You may enter any information regarding the signal.
11	MAN	dialog	0	B(r/w)	Flag indicating that MAN ual control by Operator Station operator has been selected.	0=controlled and updated by PC-program.
36	ERR_TR	user	0	-	ERR or TR eatment.	Not used.
37	PROC_SEC	user	0	l(r/w)	PROC ess SEC tion is used for sectioning the object handling. Section numbers 1-16.	0=no sectioning. The signal may be presented in lists -1=the signal cannot be selected and cannot be presented in lists.
38	CLASS	user	0	l(r/w)	CLASS subdivides process section. Used by status list function in Operator Station.	-
28	ORDER_TO	system	-	B(r/w)	Flag carrying "ON", "OPEN" etc ORDER s from Operator Station system TO PC-program.	Can be read and reset by PC program.
29	ORDER_FR	dialog	-	B(r/w)	Flag carrying "OFF", "CLOSE" etc ORDER s FR om Operator Station system to PC-program.	Can be read and reset by PC program.
9	SELECTED	system	-	B(r/w)	Flag indicating whether the element has been SELECTED by the Operator Station operator for dialog.	-

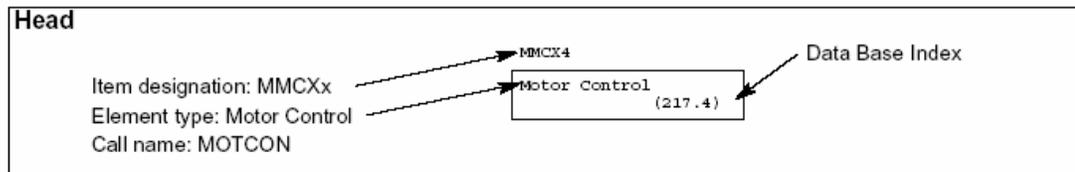
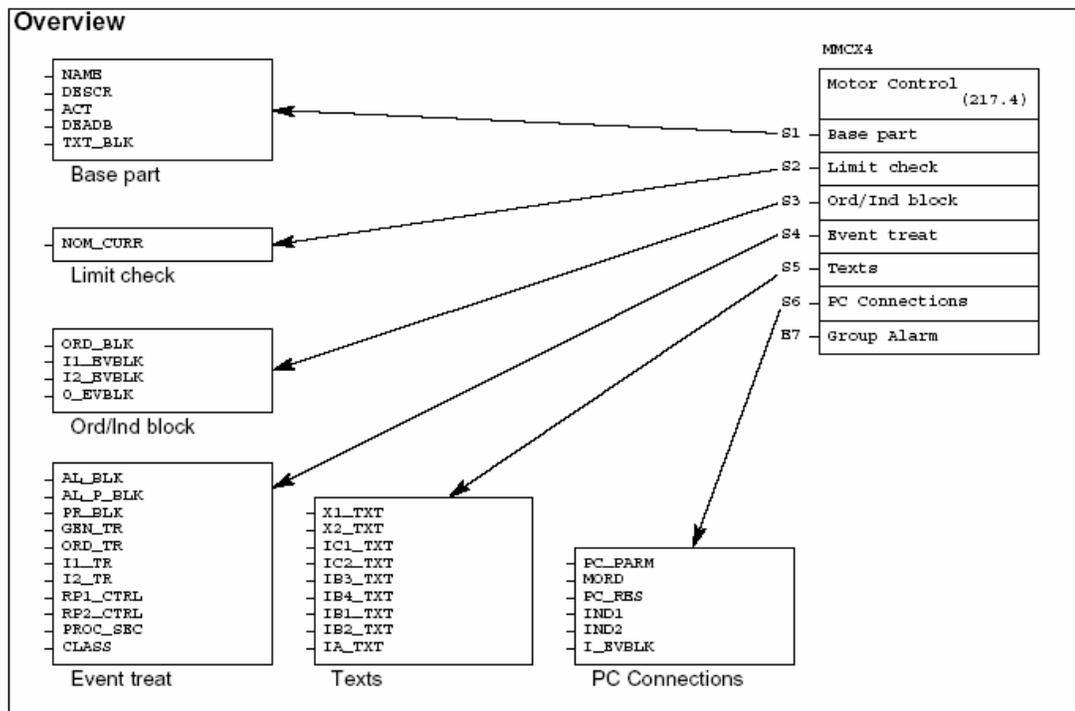
Motor Control

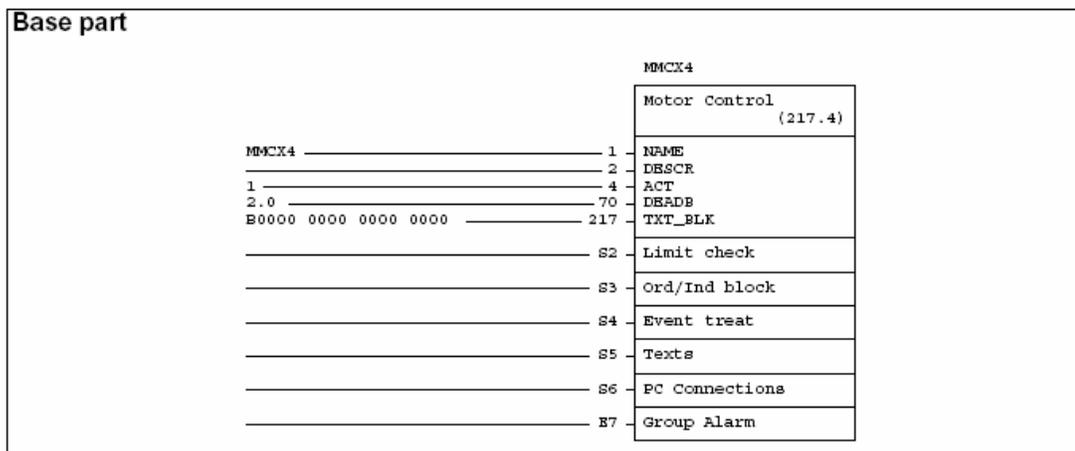
MOTCON

Summary

The Motor Control data base element is used to build Advant Station 500 Series Operator Station functions for the MOTCON function unit. Some static information is given. For information about the extension parts of Group Alarm see data base element Group Member.

Parameters that can be changed from the dialog can be given start values.





Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	MMCXx	–	Each object must be given a unique NAME . E.g. ABC 123.	Max. 20 characters. Spaces are not allowed.
2	DESCR	user	–	–	DESCR ption of the object that is shown in Operator Station.	Max. 20 characters. Any information regarding the object may be entered.
4	ACT	user	1	B(r/w)	1=operator communication is ACT ive.	0=dialog is blocked and events are not updated.
70	DEADB	user	2.0	–	DEADB and limit percentage. If change in current exceeds the limit, the value will be updated.	–

Terminal Description, Base part (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
217	TXT_BLK	user	H'0	I(r/w)	TeXT BLoCK is used to remove unused fixed error texts from the object picture. All available texts are represented by a flag in TXT_BLK. A set flag indicates a blocked text. The default value have no set flags. The TXT_BLK table shows how to compute the TXT_BLK value. New values can be entered as hexadecimal string, e.g. H'0000 or as a binary string, e.g. B0000 0000 0000 0000.	Text		
						Control voltage	1	0
						Bimetal relay	2	
						Local stop	4	
						Safety Monitor	8	
						Not used	1	0
						Monitor high	2	
						Monitor low	4	
						Not used	8	
						Not used	1	0
						Not used	2	
						Not used	4	
Not used	8							
Not used	1	0						
Not used	2							
Not used	4							
Not used	8							

Limit check		MMCX4	
		Motor Control	(217.4)
_____	S1	Base part	
0.1 _____	67	NOM_CURR	
_____	S3	Ord/Ind block	
_____	S4	Event treat	
_____	S5	Texts	
_____	S6	PC Connections	
_____	E7	Group Alarm	

Terminal Description, Limit check

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
67	NOM_CURR	user	0.1	R(r)	The NOMINAL CURRENT of the motor expressed in amperes. This value is used for limit check of motor current. It is also used for scaling of motor current in which case it equals 100%.	One decimal only will be displayed in Operator Station. (0.1..9999.9).

Ord/Ind block		MMCX4	
		Motor Control	(217.4)
_____	S1	Base part	
_____	S2	Limit check	
B0000 0000 0000 0000 _____	110	ORD_BLK	
B1111 1111 1000 0000 _____	128	I1_EVBLK	
B1111 1111 1111 1111 _____	145	I2_EVBLK	
B1111 1111 0011 1111 _____	162	O_EVBLK	
_____	S4	Event treat	
_____	S5	Texts	
_____	S6	PC Connections	
_____	E7	Group Alarm	

Terminal Description, Ord/Ind block

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
110	ORD_BLK	user	H'0000	l(r/w)	BLoCKing of manual ORDers. All available orders are represented by a flag in ORD_BLK. A set flag indicates a blocked order. The default value contains no set flags. The ORD_BLK table shows how to compute the ORD_BLK value. New value can be entered as a hexadecimal string, e.g. H'0000, or as a binary string, e.g. B0000 0000 0000 0000.	Text		
						Local	1	0
						Test	2	
						Standby	4	
						Central	8	
						Auto	1	0
						Man	2	
						Blocking of interlocks IB1 and IB3	4	
						Deblocking of interlocks	8	
						Forw./high	1	0
						Rew./low	2	
						Startorder	4	
Stoporder	8							
Y1	1	0						
Y2	2							
Y3	4							
Sequence	8							

Terminal Description, Ord/Ind block (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
128	I1_EVBLK	user	H'FF80	I(r/w)	<p>BLocking of Indication EVents 1. All available events are represented by a flag in I1_EVBLK. A set flag indicates a blocked event. The default value is set to block all events at indication that are not normally error indications. The I1_EVBLK table shows how to compute the I1_EVBLK value. New value can be entered as a hexadecimal string, e.g. H'F300, or as a binary string, e.g. B'1111 0011 0000 0000.</p>	Control voltage	1	0
						Bimetal relay	2	
						Local stop	4	
						Safety Monitor	8	
						Contactors	1	8
						Monitor high	2	
						Monitor low	4	
						X1 external indication/ alarm	8	
						Always 1	1	F
						Always 1	2	
						High motor current	4	
						X2 external indication/ alarm	8	
						Always 1	1	F
						Always 1	2	
Always 1	4							
Always 1	8							

Terminal Description, Ord/Ind block (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
145	I2_EVBLK	user	H'FFFF	l(r/w)	Locking of Indication Events 2. All available events at indication are represented by flag in I2_EVBLK. A set flag indicates a blocked event. The default value is set to block all events. The I2_EVBLK table shows how to compute the I2_EVBLK value. New value can be entered as a hexadecimal string, e.g. H'80C1, or as a binary string, e.g. B1000 0000 1100 0001.	Text	Bit value	Def. Hex. value
						Always 1	1	F
						Local	2	
						Test	4	
						Standby	8	
						Sequence	1	F
						Auto/Manual	2	
						Always 1	4	
						Always 1	8	
						Active interlock IC1	1	F
						Active interlock IC2	2	
						Active interlock IB3	4	
						Active interlock IB4	8	
						Active interlock IB1	1	F
Active interlock IB2	2							
Active interlock IA	4							
Always 1	8							
162	O_EVBLK	user	H'FF3F	–	Blocking of manual Orders Events. All available events are represented by a flag in O_EVBLK. A set flag indicates a blocked event. The default value is set to block all events except interlock blocking. The O_EVBLK value is computed in the same way as the ORD_BLK value and uses the same table. New values can be entered as a hexadecimal string, e.g. H'0000, or as a binary string, e.g. B0000 0000 0000 0000.	The function is not implemented in Operator Station.		

Event treat																																					
	<p style="text-align: center;">MMCX4</p> <table border="1" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;">Motor Control (217.4)</td> </tr> <tr> <td style="width: 50%; text-align: right;">S1</td> <td>Base part</td> </tr> <tr> <td style="text-align: right;">S2</td> <td>Limit check</td> </tr> <tr> <td style="text-align: right;">S3</td> <td>Ord/Ind block</td> </tr> <tr> <td style="text-align: right;">1</td> <td>5 AL_BLK</td> </tr> <tr> <td style="text-align: right;">0</td> <td>6 AL_P_BLK</td> </tr> <tr> <td style="text-align: right;">1</td> <td>7 PR_BLK</td> </tr> <tr> <td style="text-align: right;">0</td> <td>191 GEN_TR</td> </tr> <tr> <td style="text-align: right;">8</td> <td>193 ORD_TR</td> </tr> <tr> <td style="text-align: right;">10</td> <td>194 I1_TR</td> </tr> <tr> <td style="text-align: right;">12</td> <td>195 I2_TR</td> </tr> <tr> <td style="text-align: right;">B1111 1111 1111 1111</td> <td>235 RP1_CTRL</td> </tr> <tr> <td style="text-align: right;">B1111 1111 1111 1111</td> <td>236 RP2_CTRL</td> </tr> <tr> <td style="text-align: right;">0</td> <td>198 PROC_SEC</td> </tr> <tr> <td style="text-align: right;">0</td> <td>199 CLASS</td> </tr> <tr> <td style="text-align: right;">S5</td> <td>Texts</td> </tr> <tr> <td style="text-align: right;">S6</td> <td>PC Connections</td> </tr> <tr> <td style="text-align: right;">S7</td> <td>Group Alarm</td> </tr> </table>	Motor Control (217.4)		S1	Base part	S2	Limit check	S3	Ord/Ind block	1	5 AL_BLK	0	6 AL_P_BLK	1	7 PR_BLK	0	191 GEN_TR	8	193 ORD_TR	10	194 I1_TR	12	195 I2_TR	B1111 1111 1111 1111	235 RP1_CTRL	B1111 1111 1111 1111	236 RP2_CTRL	0	198 PROC_SEC	0	199 CLASS	S5	Texts	S6	PC Connections	S7	Group Alarm
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S6	PC Connections																																				
S7	Group Alarm																																				

Terminal Description, Event treat

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
5	AL_BLK	dialog	1	–	Flag for BLocking of ALarm indication and event handling in Operator Station.	–
6	AL_P_BLK	system	0	B(r/w)	ALarm Period BLock flag for temporary blocking of alarm indication and event handling in Operator Station by PC program.	–
7	PR_BLK	dialog	1	–	Flag for BLocking of PRINTout in Operator Station.	–
191	GEN_TR	user	0	–	The GENeral TRreatment terminal assigns item numbers for event handling of ALARM BLock orders and PRINT BLock orders.	Function not implemented in Operator Station.
193	ORD_TR	user	8	–	The manual ORDER TRreatment terminal assigns item numbers for event handling of manual orders MORD_00..MORD_15.	Function not implemented in Operator Station.

Terminal Description, Event treat (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
194	I1_TR	user	10	–	The Indication T reatment 1 terminal assigns terminal numbers for event handling of changes in IND1.	–
195	I2_TR	user	12	–	The Indication T reatment 2 terminal assigns terminal numbers for event handling of changes in IND2.	–
235	RP1_CTRL	user	H'FFFF	–	Every bit of the value B Locks R ePeat error in the corresponding bit of the IND1.	Uses the same bit-table as I1_EVBLK.
236	RP2_CTRL	user	H'FFFF	–	Every bit of the value B Locks R ePeat error in the corresponding bit of the IND2.	Uses the same bit-table as I2_EVBLK.
198	PROC_SEC	user	0	I(r/w)	PROC ess SEC tion is used for sectioning the alarm handling. Section numbers 1-16.	0=no sectioning. The signal may be presented in lists –1=the signal cannot be selected and cannot be presented in lists.
199	CLASS	user	0	I(r/w)	CLASS subdivides process section. Used by status list function in Operator Station.	–

Texts																																			
	<table border="1"> <thead> <tr> <th colspan="2">MMCX4</th> </tr> </thead> <tbody> <tr> <td></td> <td>Motor Control (217.4)</td> </tr> <tr> <td>_____ S1</td> <td>Base part</td> </tr> <tr> <td>_____ S2</td> <td>Limit check</td> </tr> <tr> <td>_____ S3</td> <td>ord/Ind block</td> </tr> <tr> <td>_____ S4</td> <td>Event treat</td> </tr> <tr> <td>_____ 187</td> <td>X1_TXT</td> </tr> <tr> <td>_____ 188</td> <td>X2_TXT</td> </tr> <tr> <td>_____ 190.239</td> <td>IC1_TXT</td> </tr> <tr> <td>_____ 190.240</td> <td>IC2_TXT</td> </tr> <tr> <td>_____ 190.241</td> <td>IB3_TXT</td> </tr> <tr> <td>_____ 190.242</td> <td>IB4_TXT</td> </tr> <tr> <td>_____ 190.243</td> <td>IB1_TXT</td> </tr> <tr> <td>_____ 190.244</td> <td>IB2_TXT</td> </tr> <tr> <td>_____ 190.245</td> <td>IA_TXT</td> </tr> <tr> <td>_____ S6</td> <td>PC Connections</td> </tr> <tr> <td>_____ B7</td> <td>Group Alarm</td> </tr> </tbody> </table>	MMCX4			Motor Control (217.4)	_____ S1	Base part	_____ S2	Limit check	_____ S3	ord/Ind block	_____ S4	Event treat	_____ 187	X1_TXT	_____ 188	X2_TXT	_____ 190.239	IC1_TXT	_____ 190.240	IC2_TXT	_____ 190.241	IB3_TXT	_____ 190.242	IB4_TXT	_____ 190.243	IB1_TXT	_____ 190.244	IB2_TXT	_____ 190.245	IA_TXT	_____ S6	PC Connections	_____ B7	Group Alarm
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_____ B7	Group Alarm																																		

Terminal Description, Texts

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
187	X1_TXT	user	–	–	X1 TeXT. Text to be presented if the PC input X1=TRUE.	Max. 10 characters.
188	X2_TXT	user	–	–	X2 TeXT. Text to be presented if the PC input X2=TRUE.	Max. 10 characters.
190.239	IC1_TXT	user	–	–	TeXT to be presented when the IC1 input of the PC element is FALSE.	Highest priority. Max. 17 characters.
190.240	IC2_TXT	user	–	–	TeXT to be presented when the IC2 input of the PC element is FALSE.	Max. 17 characters.
190.241	IB3_TXT	user	–	–	TeXT to be presented when the IB3 input of the PC element is FALSE.	Max. 17 characters.
190.242	IB4_TXT	user	–	–	TeXT to be presented when the IB4 input of the PC element is FALSE.	Max. 17 characters.
190.243	IB1_TXT	user	–	–	TeXT to be presented when the IB1 input of the PC element is FALSE.	Max. 17 characters.
190.244	IB2_TXT	user	–	–	TeXT to be presented when the IB2 input of the PC element is FALSE.	Max. 17 characters.
190.245	IA_TXT	user	–	–	TeXT to be presented when the IA input of the PC element is FALSE.	Lowest priority. Max. 17 characters.

PC Connections		MMCX4
		Motor Control (217.4)
_____ S1		Base part
_____ S2		Limit check
_____ S3		Ord/Ind block
_____ S4		Event treat
_____ S5		Texts
GROUP OF DATA _____ 13		PC_PARM
H' 0000 _____ 48		MORD
GROUP OF DATA _____ 73		PC_RES
H' 0000 _____ 74		IND1
H' 0000 _____ 91		IND2
GROUP OF DATA _____ 127		I_EVBLK
_____ E7		Group Alarm

Terminal Description, PC Connections

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
13	PC_PARM	system	—	A32(r/w)	The PC PARAMeters terminal contains group data to be connected to the PARAM terminal of the MOTCON PC element.	—
48	MORD	dialog/PC	—	I(r/w)	Group data for Manual ORDers from the operator. Connected to the RMORD terminal of the MOTCON PC element.	—
73	PC_RES	PC	—	A12(r/w)	The PC RESult terminal contains group data to be connected from the RESULT terminal of the MOTCON PC element.	—
74	IND1	PC via PC_RES	—	I(r/w)	The INDication 1 terminal contains status indications received via PC_RES from PC.	—
91	IND2	PC via PC_RES	—	I(r/w)	The INDication 2 terminal contains status indications received via PC_RES from PC.	—
127	I_EVBLK	PC	—	IL(r/w)	BLocKing of EVent Indication.	—

Valve Control

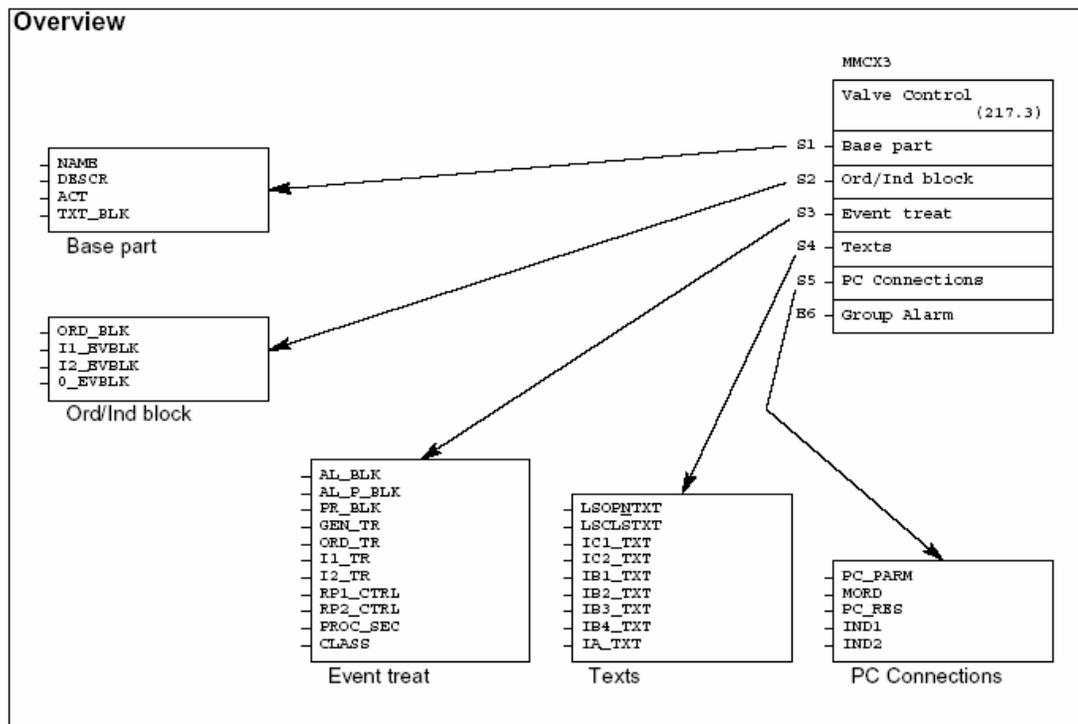
VALVECON

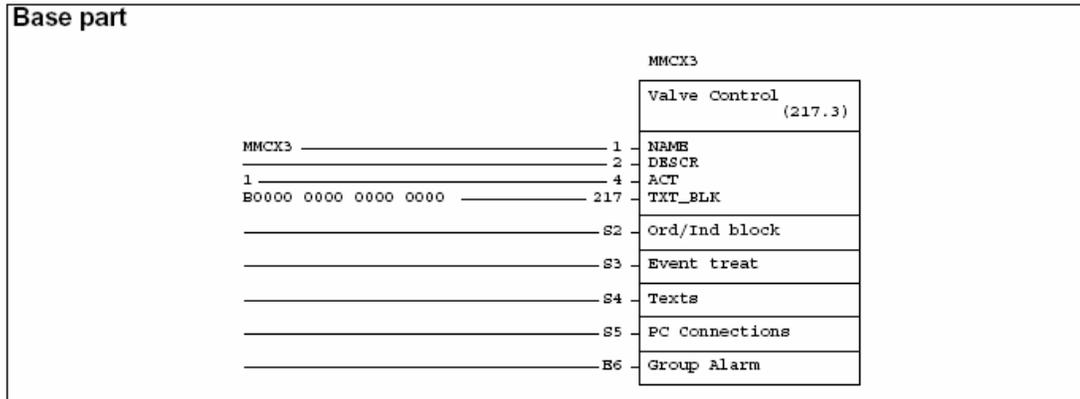
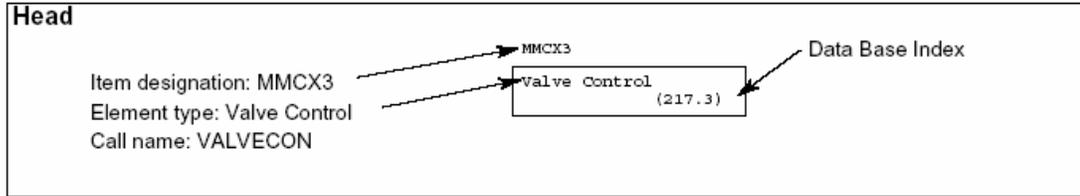
Summary

The Valve Control data base element is used to build Advant Station 500 Series Operator Station functions for the VALVECON function unit. Some static information is given.

Parameters that can be changed from the dialog can be given start values.

For information about the extension parts of Group Alarm see data base element Group Member.



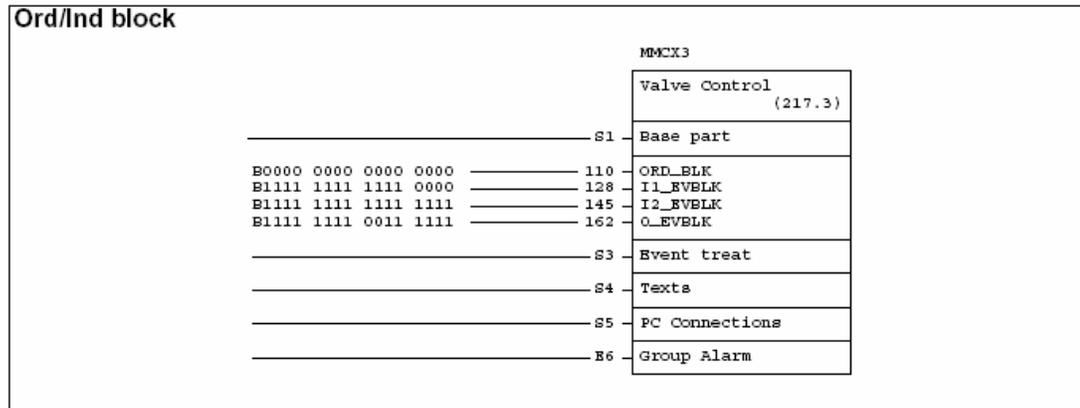


Terminal Description, Base part

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
1	NAME	user	MMCXx	–	Each object must be given a unique NAME , e.g. ABC 123.	Max. 20 characters. Spaces are not allowed.
2	DESCR	user	–	–	DESCR ption of the object that is shown in Operator Station.	Max. 20 characters. Any information regarding the object may be entered.
4	ACT	user	1	B(r/w)	1=Operator communication is ACT ive.	0=Communication is blocked and events are not updated.

Terminal Description, Base part (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
217	TXT_BLK	user	H'0000	l(r/w)	TEXT BLOCK is used to remove unused fixed error texts from the object picture. All available texts are represented by a flag in TXT_BLK. A set flag indicates a blocked text. The default value have no set flags. The TXT_BLK table shows how to compute the TXT_BLK value.			
						Fault 1	1	0
						Fault 2	2	
						Not used	4	
						Not used	8	
						Not used	1	0
						Not used	2	
						Not used	4	
						Not used	8	
						Not used	1	0
Not used	2							
Not used	4							
Not used	8							



Terminal Description, Ord/Ind block

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
110	ORD_BLK	user	H'0000	l(r/w)	BLocKing of manual ORDers. Always available orders are represented by a flag in ORD_BLK. A set flag indicates a blocked order. The default value contains no set flags. The ORD_BLK table shows how to compute the ORD_BLK value.			
						Local	1	0
						Test	2	
						Standby	4	
						Central	8	
						Auto	1	0
						Man	2	
						Blocking of interlocks IB1 and IB3	4	
						Deblocking	8	
						Open	1	0
						Close	2	
						Sequence	4	
						Not used	8	
Not used	1	0						
Not used	2							
Not used	4							
Not used	8							

Terminal Description, Ord/Ind block (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
128	I1_EVBLK	user	H'FFF0	I(r/w)	BLoCKing of Indication EVents 1. All available events are represented by a flag in I1_EVBLK. A set flag indicates a blocked event. The default value is set to block all events at indication that are not normally error indications. The I1_EVBLK table shows how to compute the I1_EVBLK value.	Text		
						External error 1	1	0
						External error 2	2	
						Position error open	4	
						Position error close	8	
						Always 1	1	F
						Always 1	2	
						Always 1	4	
						Limit switch open	8	
						Always 1	1	F
						Always 1	2	
						Always 1	4	
						Limit switch close	8	
						Always 1	1	F
Always 1	2							
Always 1	4							
Intermediate position	8							

Terminal Description, Ord/Ind block (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks		
						Text	Bit value	Def. Hex. value
145	I2_EVBLK	user	H'FFFF	I(r/w)	Locking of Indication Events 2. All available events at indication are represented by flag in I2_EVBLK. A set flag indicates a blocked event. The default value is set to block all events. The I2_EVBLK table shows how to compute the I2_EVBLK value.	Text		
						Always 1	1	F
						Local	2	
						Test	4	
						Standby	8	
						Sequence	1	F
						Auto/Manual	2	
						Always 1	4	
						Always 1	8	
						Active interlock IC1	1	F
						Active interlock IC2	2	
						Active interlock IB1	4	
						Active interlock IB2	8	
						Active interlock IB3	1	F
Active interlock IB4	2							
Active interlock IA	4							
Always 1	8							
162	O_EVBLK	user	H'FFF3F	–	Blocking of manual Orders Events. All available events are represented by a flag in O_EVBLK. A set flag indicates a blocked event. The default value is set to block all events except interlock blocking. The O_EVBLK value is computed in the same way as the ORD_BLK value and uses the same table.	The function is not implemented in Operator Station.		

Event treat	
	<pre> MMCX3 Valve Control (217.3) ----- S1 Base part ----- S2 Ord/Ind block 1 ----- 5 AL_BLK 0 ----- 6 AL_P_BLK 1 ----- 7 PR_BLK 0 ----- 191 GEN_TR 9 ----- 193 ORD_TR 11 ----- 194 I1_TR 13 ----- 195 I2_TR B1111 1111 1111 1111 ----- 235 RP1_CTRL B1111 1111 1111 1111 ----- 236 RP2_CTRL 0 ----- 198 PROC_SECT 0 ----- 199 CLASS ----- S4 Texta ----- S5 PC Connections ----- S6 Group Alarm </pre>

Terminal Description, Event treat

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
5	AL_BLK	dialog	1	-	Flag for BLocking of ALarm indication and event handling in Operator Station.	-
6	AL_P_BLK	system	0	B(r/w)	ALarm Period BLock flag for temporary blocking of alarm indication and event handling in Operator Station by PC program.	-
7	PR_BLK	dialog	1	-	Flag for BLocking of PRintout in Operator Station.	-
191	GEN_TR	user	0	-	The GENeral TRreatment terminal assigns item numbers for event handling of ALARM BLock orders and PRINT BLock orders.	Function not implemented in Operator Station.
193	ORD_TR	user	9	-	The manual ORDer TRreatment terminal assigns item numbers for event handling of manual orders MORD_00..MORD_15.	Function not implemented in Operator Station.
194	I1_TR	user	11	-	The Indication TRreatment 1 terminal assigns terminal numbers for event handling of changes in IND1.	-

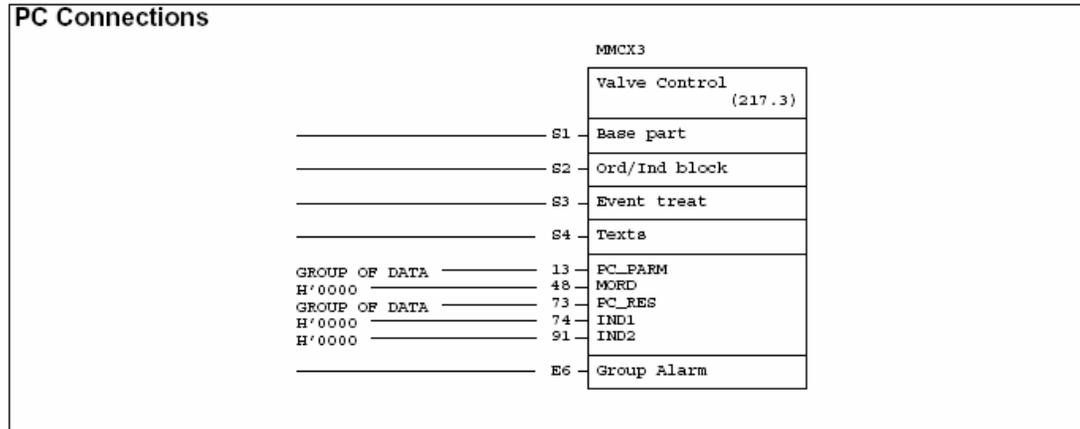
Terminal Description, Event treat (Continued)

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
195	I2_TR	user	13	–	The Indication TR eatment 2 terminal assigns terminal numbers for event handling of changes in IND2.	–
235	RP1_CTRL	user	H'FFFF	–	Every bit of the value RePeat ConTRoL error in the corresponding bit of the IND1.	Uses the same bit-table as I1_EVBLK.
236	RP2_CTRL	user	H'FFFF	–	Every bit of the value RePeat ConTRoL error in the corresponding bit of the IND2.	Uses the same bit-table as I2_EVBLK.
198	PROC_SEC	user	0	l(r/w)	PROCEss SECT ion is used for sectioning the alarm handling. Section numbers 1-16. 0=no sectioning. The signal may be presented in lists –1=the signal cannot be selected and cannot be presented in lists.	–
199	CLASS	user	0	l(r/w)	CLAS S subdivides process section. Used by status list function in Operator Station.	–

Texts		MMCX3
		Valve Control (217.3)
_____	S1	Base part
_____	S2	Ord/Ind block
_____	S3	Event treat
_____	187	LSOPNTXT
_____	188	LSCLSTXT
_____	190.239	IC1_TXT
_____	190.240	IC2_TXT
_____	190.241	IB1_TXT
_____	190.242	IB2_TXT
_____	190.243	IB3_TXT
_____	190.244	IB4_TXT
_____	190.245	IA_TXT
_____	S5	PC Connections
_____	S6	Group Alarm

Terminal Description, Texts

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
187	LSOPNTXT	user	–	–	TeXT to be presented when LSOPN input of the PC element is TRUE.	Max. 10 characters.
188	LSCLSTXT	user	–	–	TeXT to be presented when LSCLS input of the PC element is	Max. 10 characters.
190.239	IC1_TXT	user	–	–	TeXT to be presented when IC1 input of the PC element is TRUE.	Highest priority. Max. 17 characters.
190.240	IC2_TXT	user	–	–	TeXT to be presented when IC2 input of the PC element is FALSE.	Max. 17 characters.
190.241	IB1_TXT	user	–	–	TeXT to be presented when IB1 input of the PC element is FALSE.	Max. 17 characters.
190.242	IB2_TXT	user	–	–	TeXT to be presented when IB2 input of the PC element is FALSE.	Max. 17 characters.
190.243	IB3_TXT	user	–	–	TeXT to be presented when IB3 input of the PC element is FALSE.	Max. 17 characters.
190.244	IB4_TXT	user	–	–	TeXT to be presented when IB4 input of the PC element is FALSE.	Max. 17 characters.
190.245	IA_TXT	user	–	–	TeXT to be presented when IA input of the PC element is FALSE.	Lowest priority. Max. 17 characters.



Terminal Description, PC Connections

Terminal No	Terminal Name	Value entered by	Default value	PC connection data type	Description	Remarks
13	PC_PARM	system	–	A32(r/w)	The PC PARaMeters terminal contains group data to be connected to the PARAM terminal of the VALVECON PC element.	–
48	MORD	dialog/PC	–	I(r/w)	Group data for Manual ORDers from the operator. Connected to the RMORD terminal of the VALVECON PC element.	–
73	PC_RES	PC	–	A12(r/w)	The PC RESult terminal contains group data to be connected to the RESULT terminal of the VALVECON PC element.	–
74	IND1	PC via PC_RES	–	I(r/w)	The INDication 1 terminal contains status indications received via PC_RES from PC.	–
91	IND2	PC via PC_RES	–	I(r/w)	The INDication 2 terminal contains status indications received via PC_RES from PC.	–

[Anexo 8] Base de datos del programa

ENTRADAS DIGITALES (DI800_X.Y)

DIS810	NAME	DESCR
DI800_1.1	CCM1-24V-FALLO	FALTA 24V
DI800_1.2	CCM1-PE	PARADA DE EMERGENCIA
DI800_1.3	CLAXON1-D	DISPONIBILIDAD
DI800_1.4	ATA1-110V-APERTURA	APERTURA 110V
DI800_1.5	ATA-24V-FALLO	FALTA 24V
DI800_1.6	DI800_1.6	
DI800_1.7	DI800_1.7	
DI800_1.8	DI800_1.8	
DI800_1.9	DI800_1.9	
DI800_1.10	DI800_1.10	
DI800_1.11	DI800_1.11	
DI800_1.12	DI800_1.12	
DI800_1.13	DI800_1.13	
DI800_1.14	DI800_1.14	
DI800_1.15	DI800_1.15	
DI800_1.16	DI800_1.16	
DI800_2.1	579-010-D	DISPONIBILIDAD
DI800_2.2	579-010-CM	CONF. DE MARCHA
DI800_2.3	579-010-XSL	ICV DESCONECTADO
DI800_2.4	579-010-ML	MARCHA LOCAL
DI800_2.5	579-020-D	DISPONIBILIDAD
DI800_2.6	579-020-CM	CONF. DE MARCHA
DI800_2.7	579-020-XSL	ICV DESCONECTADO
DI800_2.8	579-020-ML	MARCHA LOCAL
DI800_2.9	579-030-D	DISPONIBILIDAD
DI800_2.10	579-030-CM	CONF. DE MARCHA
DI800_2.11	579-030-XSL	ICV DESCONECTADO
DI800_2.12	579-030-ML	MARCHA LOCAL
DI800_2.13	579-040-D	DISPONIBILIDAD
DI800_2.14	579-040-CM	CONF. DE MARCHA
DI800_2.15	579-040-XSL	ICV DESCONECTADO
DI800_2.16	579-040-ML	MARCHA LOCAL
DI800_3.1	521-010-D	DISPONIBILIDAD
DI800_3.2	521-010-CM	CONF. DE MARCHA
DI800_3.3	521-010-XSL	ICV DESCONECTADO
DI800_3.4	521-010-ML	MARCHA LOCAL
DI800_3.5	521-020-D	DISPONIBILIDAD
DI800_3.6	521-020-CM	CONF. DE MARCHA
DI800_3.7	521-020-XSL	ICV DESCONECTADO
DI800_3.8	521-020-ML	MARCHA LOCAL
DI800_3.9	521-030-D	DISPONIBILIDAD
DI800_3.10	521-030-CM	CONF. DE MARCHA

DI800_3.11	521-030-XSL	ICV DESCONECTADO
DI800_3.12	521-030-ML	MARCHA LOCAL
DI800_3.13	521-110-D	DISPONIBILIDAD
DI800_3.14	521-110-CM	CONF. DE MARCHA
DI800_3.15	521-110-XSL	ICV DESCONECTADO
DI800_3.16	521-110-ML	MARCHA LOCAL
DI800_4.1	521-120-D	DISPONIBILIDAD
DI800_4.2	521-120-CM	CONF. DE MARCHA
DI800_4.3	521-120-XSL	ICV DESCONECTADO
DI800_4.4	521-120-ML	MARCHA LOCAL
DI800_4.5	579-052-D	
DI800_4.6	579-052-ZSL	VALVULA CERRADA
DI800_4.7	579-052-ZSH	VALVULA ABIERTA
DI800_4.8	579-062-D	DISPONIBILIDAD
DI800_4.9	579-062-ZSL	VALVULA CERRADA
DI800_4.10	579-062-ZSH	VALVULA ABIERTA
DI800_4.11	579-072-D	DISPONIBILIDAD
DI800_4.12	579-072-ZSL	VALVULA CERRADA
DI800_4.13	579-072-ZSH	VALVULA ABIERTA
DI800_4.14	579-082-D	DISPONIBILIDAD
DI800_4.15	579-082-ZSL	VALVULA CERRADA
DI800_4.16	579-082-ZSH	VALVULA ABIERTA
DI800_5.1	521-042-D	DISPONIBILIDAD
DI800_5.2	521-042-ZSL	VALVULA CERRADA
DI800_5.3	521-042-ZSH	VALVULA ABIERTA
DI800_5.4	521-052-D	DISPONIBILIDAD
DI800_5.5	521-052-ZSL	VALVULA CERRADA
DI800_5.6	521-052-ZSH	VALVULA ABIERTA
DI800_5.7	521-062-D	DISPONIBILIDAD
DI800_5.8	521-062-ZSL	VALVULA CERRADA
DI800_5.9	521-062-ZSH	VALVULA ABIERTA
DI800_5.10	521-132-D	DISPONIBILIDAD
DI800_5.11	521-132-ZSL	VALVULA CERRADA
DI800_5.12	521-132-ZSH	VALVULA ABIERTA
DI800_5.13	521-142-D	DISPONIBILIDAD
DI800_5.14	521-142-ZSL	VALVULA CERRADA
DI800_5.15	521-142-ZSH	VALVULA ABIERTA
DI800_5.16	DI800_5.16	
DI800_6.1	579-054-D	DISPONIBILIDAD
DI800_6.2	579-054-CM2	CONF. DE MARCHA 2
DI800_6.3	579-054-CM1	CONF. DE MARCHA 1
DI800_6.4	579-054-ML1	MARCHA LOCAL 1
DI800_6.5	579-054-ML2	MARCHA LOCAL 2
DI800_6.6	579-054-XSL	ICV DESCONECTADO
DI800_6.7	579-054-ZSHH	APERTURA AL 100%
DI800_6.8	579-054-ZSH	APERTURA AL 30%
DI800_6.9	579-054-ZSL	CIERRE
DI800_6.10	579-064-D	DISPONIBILIDAD

1

DI800_6.11	579-064-CM2	CONF. DE MARCHA 2
DI800_6.12	579-064-CM1	CONF. DE MARCHA 1
DI800_6.13	579-064-ML1	MARCHA LOCAL 1
DI800_6.14	579-064-ML2	MARCHA LOCAL 2
DI800_6.15	579-064-XSL	ICV DESCONECTADO
DI800_6.16	579-064-ZSHH	APERTURA AL 100%
DI800_7.1	579-064-ZSH	APERTURA AL 30%
DI800_7.2	579-064-ZSL	CIERRE
DI800_7.3	579-074-D	DISPONIBILIDAD
DI800_7.4	579-074-CM2	CONF. DE MARCHA 2
DI800_7.5	579-074-CM1	CONF. DE MARCHA 1
DI800_7.6	579-074-ML1	MARCHA LOCAL 1
DI800_7.7	579-074-ML2	MARCHA LOCAL 2
DI800_7.8	579-074-XSL	ICV DESCONECTADO
DI800_7.9	579-074-ZSHH	APERTURA AL 100%
DI800_7.10	579-074-ZSH	APERTURA AL 30%
DI800_7.11	579-074-ZSL	CIERRE
DI800_7.12	579-084-D	DISPONIBILIDAD
DI800_7.13	579-084-CM2	CONF. DE MARCHA 2
DI800_7.14	579-084-CM1	CONF. DE MARCHA 1
DI800_7.15	579-084-ML1	MARCHA LOCAL 1
DI800_7.16	579-084-ML2	MARCHA LOCAL 2
DI800_8.1	579-084-XSL	ICV DESCONECTADO
DI800_8.2	579-084-ZSHH	APERTURA AL 100%
DI800_8.3	579-084-ZSH	APERTURA AL 30%
DI800_8.4	579-084-ZSL	CIERRE
DI800_8.5	521-044-D	DISPONIBILIDAD
DI800_8.6	521-044-CM2	CONF. DE MARCHA 2
DI800_8.7	521-044-CM1	CONF. DE MARCHA 1
DI800_8.8	521-044-ML1	MARCHA LOCAL 1
DI800_8.9	521-044-ML2	MARCHA LOCAL 2
DI800_8.10	521-044-XSL	ICV DESCONECTADO
DI800_8.11	521-044-ZSHH	APERTURA AL 100%
DI800_8.12	521-044-ZSH	APERTURA AL 30%
DI800_8.13	521-044-ZSL	CIERRE
DI800_8.14	521-054-D	DISPONIBILIDAD
DI800_8.15	521-054-CM2	CONF. DE MARCHA 2
DI800_8.16	521-054-CM1	CONF. DE MARCHA 1
DI800_9.1	521-054-ML1	MARCHA LOCAL 1
DI800_9.2	521-054-ML2	MARCHA LOCAL 2
DI800_9.3	521-054-XSL	ICV DESCONECTADO
DI800_9.4	521-054-ZSHH	APERTURA AL 100%
DI800_9.5	521-054-ZSH	APERTURA AL 30%
DI800_9.6	521-054-ZSL	CIERRE
DI800_9.7	521-064-D	DISPONIBILIDAD
DI800_9.8	521-064-CM2	CONF. DE MARCHA 2
DI800_9.9	521-064-CM1	CONF. DE MARCHA 1
DI800_9.10	521-064-ML1	MARCHA LOCAL 1

DI800_9.11	521-064-ML2	MARCHA LOCAL 2
DI800_9.12	521-064-XSL	ICV DESCONECTADO
DI800_9.13	521-064-ZSHH	APERTURA AL 100%
DI800_9.14	521-064-ZSH	APERTURA AL 30%
DI800_9.15	521-064-ZSL	CIERRE
DI800_9.16	521-134-D	DISPONIBILIDAD
DI800_10.1	521-134-CM2	CONF. DE MARCHA 2
DI800_10.2	521-134-CM1	CONF. DE MARCHA 1
DI800_10.3	521-134-ML1	MARCHA LOCAL 1
DI800_10.4	521-134-ML2	MARCHA LOCAL 2
DI800_10.5	521-134-XSL	ICV DESCONECTADO
DI800_10.6	521-134-ZSHH	APERTURA AL 100%
DI800_10.7	521-134-ZSH	APERTURA AL 30%
DI800_10.8	521-134-ZSL	CIERRE
DI800_10.9	521-144-D	DISPONIBILIDAD
DI800_10.10	521-144-CM2	CONF. DE MARCHA 2
DI800_10.11	521-144-CM1	CONF. DE MARCHA 1
DI800_10.12	521-144-ML1	MARCHA LOCAL 1
DI800_10.13	521-144-ML2	MARCHA LOCAL 2
DI800_10.14	521-144-XSL	ICV DESCONECTADO
DI800_10.15	521-144-ZSHH	APERTURA AL 100%
DI800_10.16	521-144-ZSH	APERTURA AL 30%
DI800_11.1	521-144-ZSL	CIERRE
DI800_11.2	579-090-D	DISPONIBILIDAD
DI800_11.3	579-090-CM	CONF. DE MARCHA
DI800_11.4	579-090-XSL	ICV DESCONECTADO
DI800_11.5	579-090-ML	MARCHA LOCAL
DI800_11.6	579-100-D	DISPONIBILIDAD
DI800_11.7	579-100-CM	CONF. DE MARCHA
DI800_11.8	579-100-XSL	ICV DESCONECTADO
DI800_11.9	579-100-ML	MARCHA LOCAL
DI800_11.10	579-091-D	DISPONIBILIDAD
DI800_11.11	579-091-CM	CONF. DE MARCHA
DI800_11.12	579-091-XSL	ICV DESCONECTADO
DI800_11.13	579-091-ML	MARCHA LOCAL
DI800_11.14	DI800_11.14	
DI800_11.15	DI800_11.15	
DI800_11.16	DI800_11.16	
DI800_12.1	579-101-D	DISPONIBILIDAD
DI800_12.2	579-101-CM	CONF. DE MARCHA
DI800_12.3	579-101-XSL	ICV DESCONECTADO
DI800_12.4	579-101-ML	MARCHA LOCAL
DI800_12.5	DI800_12.5	
DI800_12.6	DI800_12.6	
DI800_12.7	DI800_12.7	
DI800_12.8	DI800_12.8	
DI800_12.9	DI800_12.9	
DI800_12.10	DI800_12.10	

DI800_12.11	DI800_12.11	
DI800_12.12	DI800_12.12	
DI800_12.13	DI800_12.13	
DI800_12.14	DI800_12.14	
DI800_12.15	DI800_12.15	
DI800_12.16	DI800_12.16	
DI800_13.1	579-095-D	DISPONIBILIDAD
DI800_13.2	579-095-CM2	CONF. DE MARCHA 2
DI800_13.3	579-095-CM1	CONF. DE MARCHA 1
DI800_13.4	579-095-XSL	ICV DESCONECTADO
DI800_13.5	579-095-ZSH	MANGA RECOGIDA
DI800_13.6	579-095-ZSL	MANGA BAJA
DI800_13.7	579-095-LSH	SENSOR DE LA MANGA
DI800_13.8	579-095-ZS	PRESENCIA DE CAMION
DI800_13.9	579-095-OSL	ORDEN DE SUBIDA
DI800_13.10	579-095-OBL	ORDEN DE BAJADA
DI800_13.11	579-095-C100	CARGA AL 100%
DI800_13.12	579-095-C50	CARGA AL 50%
DI800_13.13	579-095-PL	PARADA LOCAL
DI800_13.14	579-095-ML	MARCHA LOCAL
DI800_13.15	579-095-PE	PARADA DE EMERGENCIA
DI800_13.16	DI800_13.16	
DI800_14.1	579-105-D	DISPONIBILIDAD
DI800_14.2	579-105-CM2	CONF. DE MARCHA 2
DI800_14.3	579-105-CM1	CONF. DE MARCHA 1
DI800_14.4	579-105-XSL	ICV DESCONECTADO
DI800_14.5	579-105-ZSH	MANGA RECOGIDA
DI800_14.6	579-105-ZSL	MANGA BAJA
DI800_14.7	579-105-LSH	SENSOR DE LA MANGA
DI800_14.8	579-105-ZS	PRESENCIA DE CAMION
DI800_14.9	579-105-OSL	ORDEN DE SUBIDA
DI800_14.10	579-105-OBL	ORDEN DE BAJADA
DI800_14.11	579-105-C100	CARGA AL 100%
DI800_14.12	579-105-C50	CARGA AL 50%
DI800_14.13	579-105-PL	PARADA LOCAL
DI800_14.14	579-105-ML	MARCHA LOCAL
DI800_14.15	579-105-PE	PARADA DE EMERGENCIA
DI800_14.16	DI800_14.16	
DI800_15.1	T_MANGA1_SILO1-D	DISPONIBILIDAD
DI800_15.2	T_MANGA2_SILO1-D	DISPONIBILIDAD
DI800_15.3	579-710-D	DISPONIBILIDAD
DI800_15.4	579-710-CM	CONF. DE MARCHA
DI800_15.5	579-710-XSL	ICV DESCONECTADO
DI800_15.6	579-710-ML	MARCHA LOCAL
DI800_15.7	579-710-P	PRESOSTATO
DI800_15.8	521-700-D	DISPONIBILIDAD
DI800_15.9	521-700-CM	CONF. DE MARCHA
DI800_15.10	521-700-XSL	ICV DESCONECTADO

DI800_15.11	521-700-ML	MARCHA LOCAL
DI800_15.12	521-700-P	PRESOSTATO
DI800_15.13	460-730B-D	DISPONIBILIDAD
DI800_15.14	460-730C-D	DISPONIBILIDAD
DI800_15.15	460-730D-D	DISPONIBILIDAD
DI800_15.16	460-730E-D	DISPONIBILIDAD
DI800_16.1	460-730I-D	DISPONIBILIDAD
DI800_16.2	460-730J-D	DISPONIBILIDAD
DI800_16.3	460-730K-D	DISPONIBILIDAD
DI800_16.4	460-750G-D	DISPONIBILIDAD
DI800_16.5	460-750H-D	DISPONIBILIDAD
DI800_16.6	579-710EV07-D	DISPONIBILIDAD
DI800_16.7	579-710EV11-D	DISPONIBILIDAD
DI800_16.8	521-700EV04-D	DISPONIBILIDAD
DI800_16.9	521-700EV11-D	DISPONIBILIDAD
DI800_16.10	521-700EV15-D	DISPONIBILIDAD
DI800_16.11	521-043-D	DISPONIBILIDAD
DI800_16.12	521-043-CM	CONF. DE MARCHA
DI800_16.13	521-043-XSL	ICV DESCONECTADO
DI800_16.14	521-043-ML	MARCHA LOCAL
DI800_16.15	DI800_16.15	
DI800_16.16	DI800_16.16	
DI800_17.1	521-151-D	DISPONIBILIDAD
DI800_17.2	521-151-CM	CONF. DE MARCHA
DI800_17.3	521-151-XSL	ICV DESCONECTADO
DI800_17.4	521-151-ML	MARCHA LOCAL
DI800_17.5	521-181-D	DISPONIBILIDAD
DI800_17.6	521-181-CM	CONF. DE MARCHA
DI800_17.7	521-181-XSL	ICV DESCONECTADO
DI800_17.8	521-181-ML	MARCHA LOCAL
DI800_17.9	521-191-D	DISPONIBILIDAD
DI800_17.10	521-191-CM	CONF. DE MARCHA
DI800_17.11	521-191-XSL	ICV DESCONECTADO
DI800_17.12	521-191-ML	MARCHA LOCAL
DI800_17.13	460-521-D	DISPONIBILIDAD
DI800_17.14	460-521-CM	CONF. DE MARCHA
DI800_17.15	460-521-XSL	ICV DESCONECTADO
DI800_17.16	460-521-ML	MARCHA LOCAL
DI800_18.1	460-523-D	DISPONIBILIDAD
DI800_18.2	460-523-CM	CONF. DE MARCHA
DI800_18.3	460-523-XSL	ICV DESCONECTADO
DI800_18.4	460-523-ML	MARCHA LOCAL
DI800_18.5	460-523-CR	CONTROL DE ROTACION
DI800_18.6	460-525-D	DISPONIBILIDAD
DI800_18.7	460-525-CM	CONF. DE MARCHA
DI800_18.8	460-525-XSL	ICV DESCONECTADO
DI800_18.9	460-525-ML	MARCHA LOCAL
DI800_18.10	460-526-D	DISPONIBILIDAD

DI800_18.11	460-526-CM	CONF. DE MARCHA
DI800_18.12	460-526-XSL	ICV DESCONECTADO
DI800_18.13	460-526-ML	MARCHA LOCAL
DI800_18.14	460-526-CR	CONTROL DE ROTACION
DI800_18.15	B_GANDOLERO_M1_S1	BOTON GANDOLERO
DI800_18.16	B_GANDOLERO_M2_S1	BOTON GANDOLERO
DI800_19.1	531-621-D	DISPONIBILIDAD
DI800_19.2	531-621-CM	CONF. DE MARCHA
DI800_19.3	531-621-XSL	ICV DESCONECTADO
DI800_19.4	531-621-ML	MARCHA LOCAL
DI800_19.5	531-622-D	DISPONIBILIDAD
DI800_19.6	531-622-CM	CONF. DE MARCHA
DI800_19.7	531-622-XSL	ICV DESCONECTADO
DI800_19.8	531-622-ML	MARCHA LOCAL
DI800_19.9	531-622-CR	CONTROL DE ROTACION
DI800_19.10	531-623-D	DISPONIBILIDAD
DI800_19.11	531-623-CM	CONF. DE MARCHA
DI800_19.12	531-623-XSL	ICV DESCONECTADO
DI800_19.13	531-623-ML	MARCHA LOCAL
DI800_19.14	531-623-CR	CONTROL DE ROTACION
DI800_19.15	DI800_19.15	
DI800_19.16	DI800_19.16	
DI800_20.1	531-626-D	DISPONIBILIDAD
DI800_20.2	531-626-CM	CONF. DE MARCHA
DI800_20.3	531-626-XSL	ICV DESCONECTADO
DI800_20.4	531-626-ML	MARCHA LOCAL
DI800_20.5	531-626-CR	CONTROL DE ROTACION
DI800_20.6	531-651-D	DISPONIBILIDAD
DI800_20.7	531-651-CM	CONF. DE MARCHA
DI800_20.8	531-651-XSL	ICV DESCONECTADO
DI800_20.9	531-651-ML	MARCHA LOCAL
DI800_20.10	531-652-D	DISPONIBILIDAD
DI800_20.11	531-652-CM	CONF. DE MARCHA
DI800_20.12	531-652-XSL	ICV DESCONECTADO
DI800_20.13	531-652-ML	MARCHA LOCAL
DI800_20.14	531-652-CR	CONTROL DE ROTACION
DI800_20.15	DI800_20.15	
DI800_20.16	DI800_20.16	
DI800_21.1	531-653-D	DISPONIBILIDAD
DI800_21.2	531-653-CM	CONF. DE MARCHA
DI800_21.3	531-653-XSL	ICV DESCONECTADO
DI800_21.4	531-653-ML	MARCHA LOCAL
DI800_21.5	531-653-CR	CONTROL DE ROTACION
DI800_21.6	531-655-D	DISPONIBILIDAD
DI800_21.7	531-655-CM	CONF. DE MARCHA
DI800_21.8	531-655-XSL	ICV DESCONECTADO
DI800_21.9	531-655-ML	MARCHA LOCAL
DI800_21.10	531-655-CR	CONTROL DE ROTACION

DI800_21.11	521-520B-D	DISPONIBILIDAD
DI800_21.12	521-520B-F	FALLO
DI800_21.13	DI800_21.13	
DI800_21.14	DI800_21.14	
DI800_21.15	DI800_21.15	
DI800_21.16	DI800_21.16	
DI800_22.1	521-523-D	DISPONIBILIDAD
DI800_22.2	521-523-CM	CONF.DE MARCHA
DI800_22.3	521-523-XSL	ICV DESCONECTADO
DI800_22.4	521-523-ML	MARCHA LOCAL
DI800_22.5	521-523-CR	CONTROL DE ROTACION
DI800_22.6	521-525-D	DISPONIBILIDAD
DI800_22.7	521-525-CM	CONF.DE MARCHA
DI800_22.8	521-525-XSL	ICV DESCONECTADO
DI800_22.9	521-525-ML	MARCHA LOCAL
DI800_22.10	521-525-CR	CONTROL DE ROTACION
DI800_22.11	521-550B-D	DISPONIBILIDAD
DI800_22.12	521-550B-F	FALLO
DI800_22.13	521-553-D	DISPONIBILIDAD
DI800_22.14	521-553-CM	CONF.DE MARCHA
DI800_22.15	521-553-XSL	ICV DESCONECTADO
DI800_22.16	521-553-ML	MARCHA LOCAL
DI800_23.1	521-555-D	DISPONIBILIDAD
DI800_23.2	521-555-CM	CONF.DE MARCHA
DI800_23.3	521-555-XSL	ICV DESCONECTADO
DI800_23.4	521-555-ML	MARCHA LOCAL
DI800_23.5	521-555-CR	CONTROL DE ROTACION
DI800_23.6	560-506-D	DISPONIBILIDAD
DI800_23.7	560-506-CM	CONF.DE MARCHA
DI800_23.8	560-506-XSL	ICV DESCONECTADO
DI800_23.9	560-506-ML	MARCHA LOCAL
DI800_23.10	560-521-D	DISPONIBILIDAD
DI800_23.11	560-521-CM	CONF.DE MARCHA
DI800_23.12	560-521-XSL	ICV DESCONECTADO
DI800_23.13	560-521-ML	MARCHA LOCAL
DI800_23.14	560-523-D	DISPONIBILIDAD
DI800_23.15	DI800_23.15	
DI800_23.16	DI800_23.16	
DI800_24.1	560-526-D	DISPONIBILIDAD
DI800_24.2	560-526-CM	CONF. DE MARCHA
DI800_24.3	560-526-XSL	ICV DESCONECTADO
DI800_24.4	560-526-ML	MARCHA LOCAL
DI800_24.5	521-170-D	DISPONIBILIDAD
DI800_24.6	521-170-CM	CONF. DE MARCHA
DI800_24.7	521-170-XSL	ICV DESCONECTADO
DI800_24.8	521-170-ML	MARCHA LOCAL
DI800_24.9	521-170-LSH	NIVEL ALTO EN FOSA
DI800_24.10	521-170-CR	CONTROL DE ROTACION

DI800_24.11	521-170-ZS1	DESVIACION DE BANDA
DI800_24.12	521-170-ZS2	DESVIACION DE BANDA
DI800_24.13	521-170-ZS3	DESVIACION DE BANDA
DI800_24.14	521-170-ZS4	DESVIACION DE BANDA
DI800_24.15	DI800_24.15	
DI800_24.16	DI800_24.16	
DI800_25.1	531-350-D	DISPONIBILIDAD
DI800_25.2	531-350-CM	CONF. DE MARCHA
DI800_25.3	531-350-XSL	ICV DESCONECTADO
DI800_25.4	531-350-ML	MARCHA LOCAL
DI800_25.5	531-350-LSH	ALARMA NIVEL
DI800_25.6	531-350-CR	CONTROL DE ROTACION
DI800_25.7	531-350-ZS	SENSOR DE CANGILON
DI800_25.8	531-370-D	DISPONIBILIDAD
DI800_25.9	531-370-CM	CONF. DE MARCHA
DI800_25.10	531-370-XSL	ICV DESCONECTADO
DI800_25.11	531-370-ML	MARCHA LOCAL
DI800_25.12	531-370-CR	CONTROL DE ROTACION
DI800_25.13	531-380-LSHH	NIVEL ALTO
DI800_25.14	531-380-LSH	NIVEL MEDIO
DI800_25.15	531-380-LSL	NIVEL BAJO
DI800_25.16	531-390-ZS	POSICION ESCULSA
DI800_26.1	531-400-D	DISPONIBILIDAD
DI800_26.2	531-400-CM	CONF. DE MARCHA
DI800_26.3	531-400-XSL	ICV DESCONECTADO
DI800_26.4	531-400-ML	MARCHA LOCAL
DI800_26.5	531-400-PE	PARADA DE EMERGENCIA
DI800_26.6	531-420-D	DISPONIBILIDAD
DI800_26.7	531-420-CM	CONF. DE MARCHA
DI800_26.8	531-420-XSL	ICV DESCONECTADO
DI800_26.9	531-420-ML	MARCHA LOCAL
DI800_26.10	531-420-PE	PARADA DE EMERGENCIA
DI800_26.11	531-460-D	DISPONIBILIDAD
DI800_26.12	531-460-CM	CONF. DE MARCHA
DI800_26.13	531-460-XSL	ICV DESCONECTADO
DI800_26.14	531-460-ML	MARCHA LOCAL
DI800_26.15	531-460-CR	CONTROL DE ROTACION
DI800_26.16	531-460-PE	PARADA DE EMERGENCIA
DI800_27.1	531-470-D	DISPONIBILIDAD
DI800_27.2	531-470-CM	CONF. DE MARCHA
DI800_27.3	531-470-XSL	531-471-XSL
DI800_27.4	531-470-ML	MARCHA LOCAL
DI800_27.5	531-470EV-D	DISPONIBILIDAD
DI800_27.6	531-470EV-ZSH	DESVIADOR ACTIVO
DI800_27.7	531-470EV-ZSL	DESVIADOR INACTIVO
DI800_27.8	531-471-D	DISPONIBILIDAD
DI800_27.9	531-471-CM2	CONF. DE MARCHA 2
DI800_27.10	531-471-CM1	CONF. DE MARCHA 1

DI800_27.11	531-471-XSL	ICV DESCONECTADO
DI800_27.12	531-471-ML2	MARCHA LOCAL 2
DI800_27.13	531-471-ML1	MARCHA LOCAL 1
DI800_27.14	531-400-LSH	NIVEL ALTO
DI800_27.15	531-390-D	DISPONIBILIDAD
DI800_27.16	531-390-ZSL	POSICION CERRADA
DI800_28.1	531-472-D	DISPONIBILIDAD
DI800_28.2	531-472-CM	CONF. DE MARCHA
DI800_28.3	531-472-XSL	ICV DESCONECTADO
DI800_28.4	531-472-ML	MARCHA LOCAL
DI800_28.5	531-476-D	DISPONIBILIDAD
DI800_28.6	531-476-CM2	CONF. DE MARCHA 2
DI800_28.7	531-476-CM1	CONF. DE MARCHA 1
DI800_28.8	531-476-XSL	ICV DESCONECTADO
DI800_28.9	531-476-ML2	MARCHA LOCAL 2
DI800_28.10	531-476-ML1	MARCHA LOCAL 1
DI800_28.11	531-470EV-ML1	ORDEN DE DESVIO
DI800_28.12	DI800_28.12	
DI800_28.13	DI800_28.13	
DI800_28.14	DI800_28.14	
DI800_28.15	DI800_28.15	
DI800_28.16	DI800_28.16	
DI800_29.1	531-476-SL	SUBIDA
DI800_29.2	531-476-BL	BAJADA
DI800_29.3	531-476-ADL	ADELANTE
DI800_29.4	531-476-ATL	ATRAS
DI800_29.5	531-476-PES	PETICION DE SACOS
DI800_29.6	531-476-PAS	PARADA DE SACOS
DI800_29.7	531-476-PE	PARADA DE EMERGENCIA
DI800_29.8	531-480-D	DISPONIBILIDAD
DI800_29.9	531-480-CM	CONF. DE MARCHA
DI800_29.10	531-480-XSL	ICV DESCONECTADO
DI800_29.11	531-480-ML	MARCHA LOCAL
DI800_29.12	531-811-D	DISPONIBILIDAD
DI800_29.13	DI800_29.13	
DI800_29.14	DI800_29.14	
DI800_29.15	DI800_29.15	
DI800_29.16	DI800_29.16	
DI800_30.1	531-455-D	DISPONIBILIDAD
DI800_30.2	531-455-CM	CONF. DE MARCHA
DI800_30.3	531-455-XSL	ICV DESCONECTADO
DI800_30.4	531-455-ML	MARCHA LOCAL
DI800_30.5	531-455-CR	CONTROL DE ROTACION
DI800_30.6	DI800_30.6	
DI800_30.7	DI800_30.7	
DI800_30.8	DI800_30.8	
DI800_30.9	DI800_30.9	
DI800_30.10	DI800_30.10	

DI800_30.11	DI800_30.11
DI800_30.12	DI800_30.12
DI800_30.13	DI800_30.13
DI800_30.14	DI800_30.14
DI800_30.15	DI800_30.15
DI800_30.16	DI800_30.16
DI800_31.1	DI800_31.1
DI800_31.2	DI800_31.2
DI800_31.3	DI800_31.3
DI800_31.4	DI800_31.4
DI800_31.5	DI800_31.5
DI800_31.6	DI800_31.6
DI800_31.7	DI800_31.7
DI800_31.8	DI800_31.8
DI800_31.9	DI800_31.9
DI800_31.10	DI800_31.10
DI800_31.11	DI800_31.11
DI800_31.12	DI800_31.12
DI800_31.13	DI800_31.13
DI800_31.14	DI800_31.14
DI800_31.15	DI800_31.15
DI800_31.16	DI800_31.16
DI800_32.1	DI800_32.1
DI800_32.2	DI800_32.2
DI800_32.3	DI800_32.3
DI800_32.4	DI800_32.4
DI800_32.5	DI800_32.5
DI800_32.6	DI800_32.6
DI800_32.7	DI800_32.7
DI800_32.8	DI800_32.8
DI800_32.9	DI800_32.9
DI800_32.10	DI800_32.10
DI800_32.11	DI800_32.11
DI800_32.12	DI800_32.12
DI800_32.13	DI800_32.13
DI800_32.14	DI800_32.14
DI800_32.15	DI800_32.15
DI800_32.16	DI800_32.16
DI800_33.1	DI800_33.1
DI800_33.2	DI800_33.2
DI800_33.3	DI800_33.3
DI800_33.4	DI800_33.4
DI800_33.5	DI800_33.5
DI800_33.6	DI800_33.6
DI800_33.7	DI800_33.7
DI800_33.8	DI800_33.8
DI800_33.9	DI800_33.9
DI800_33.10	DI800_33.10

DI800_33.11	DI800_33.11
DI800_33.12	DI800_33.12
DI800_33.13	DI800_33.13
DI800_33.14	DI800_33.14
DI800_33.15	DI800_33.15
DI800_33.16	DI800_33.16
DI800_34.1	DI800_34.1
DI800_34.2	DI800_34.2
DI800_34.3	DI800_34.3
DI800_34.4	DI800_34.4
DI800_34.5	DI800_34.5
DI800_34.6	DI800_34.6
DI800_34.7	DI800_34.7
DI800_34.8	DI800_34.8
DI800_34.9	DI800_34.9
DI800_34.10	DI800_34.10
DI800_34.11	DI800_34.11
DI800_34.12	DI800_34.12
DI800_34.13	DI800_34.13
DI800_34.14	DI800_34.14
DI800_34.15	DI800_34.15
DI800_34.16	DI800_34.16
DI800_35.1	DI800_35.1
DI800_35.2	DI800_35.2
DI800_35.3	DI800_35.3
DI800_35.4	DI800_35.4
DI800_35.5	DI800_35.5
DI800_35.6	DI800_35.6
DI800_35.7	DI800_35.7
DI800_35.8	DI800_35.8
DI800_35.9	DI800_35.9
DI800_35.10	DI800_35.10
DI800_35.11	DI800_35.11
DI800_35.12	DI800_35.12
DI800_35.13	DI800_35.13
DI800_35.14	DI800_35.14
DI800_35.15	DI800_35.15
DI800_35.16	DI800_35.16
DI800_36.1	DI800_36.1
DI800_36.2	DI800_36.2
DI800_36.3	DI800_36.3
DI800_36.4	DI800_36.4
DI800_36.5	DI800_36.5
DI800_36.6	DI800_36.6
DI800_36.7	DI800_36.7
DI800_36.8	DI800_36.8
DI800_36.9	DI800_36.9
DI800_36.10	DI800_36.10

DI800_36.11	DI800_36.11
DI800_36.12	DI800_36.12
DI800_36.13	DI800_36.13
DI800_36.14	DI800_36.14
DI800_36.15	DI800_36.15
DI800_36.16	DI800_36.16
DI800_37.1	DI800_37.1
DI800_37.2	DI800_37.2
DI800_37.3	DI800_37.3
DI800_37.4	DI800_37.4
DI800_37.5	DI800_37.5
DI800_37.6	DI800_37.6
DI800_37.7	DI800_37.7
DI800_37.8	DI800_37.8
DI800_37.9	DI800_37.9
DI800_37.10	DI800_37.10
DI800_37.11	DI800_37.11
DI800_37.12	DI800_37.12
DI800_37.13	DI800_37.13
DI800_37.14	DI800_37.14
DI800_37.15	DI800_37.15
DI800_37.16	DI800_37.16
DI800_38.1	DI800_38.1
DI800_38.2	DI800_38.2
DI800_38.3	DI800_38.3
DI800_38.4	DI800_38.4
DI800_38.5	DI800_38.5
DI800_38.6	DI800_38.6
DI800_38.7	DI800_38.7
DI800_38.8	DI800_38.8
DI800_38.9	DI800_38.9
DI800_38.10	DI800_38.10
DI800_38.11	DI800_38.11
DI800_38.12	DI800_38.12
DI800_38.13	DI800_38.13
DI800_38.14	DI800_38.14
DI800_38.15	DI800_38.15
DI800_38.16	DI800_38.16
DI800_39.1	DI800_39.1
DI800_39.2	DI800_39.2
DI800_39.3	DI800_39.3
DI800_39.4	DI800_39.4
DI800_39.5	DI800_39.5
DI800_39.6	DI800_39.6
DI800_39.7	DI800_39.7
DI800_39.8	DI800_39.8
DI800_39.9	DI800_39.9
DI800_39.10	DI800_39.10

DI800_39.11	DI800_39.11	
DI800_39.12	DI800_39.12	
DI800_39.13	DI800_39.13	
DI800_39.14	DI800_39.14	
DI800_39.15	DI800_39.15	
DI800_39.16	DI800_39.16	
DI800_40.1	CCM2-24V-FALLO	FALTA 24V
DI800_40.2	CCM2-PE	PARADA DE EMERGENCIA
DI800_40.3	CLAXON2-D	DISPONIBILIDAD
DI800_40.4	ATA2-110V-APERTURA	APERTURA 110V
DI800_40.5	ATA2-24V-FALLO	FALTA 24V
DI800_40.6	DI800_40.6	
DI800_40.7	DI800_40.7	
DI800_40.8	DI800_40.8	
DI800_40.9	DI800_40.9	
DI800_40.10	DI800_40.10	
DI800_40.11	DI800_40.11	
DI800_40.12	DI800_40.12	
DI800_40.13	DI800_40.13	
DI800_40.14	DI800_40.14	
DI800_40.15	DI800_40.15	
DI800_40.16	DI800_40.16	
DI800_41.1	522-010-D	DISPONIBILIDAD
DI800_41.2	522-010-CM	CONF. DE MARCHA
DI800_41.3	522-010-XSL	ICV DESCONECTADO
DI800_41.4	522-010-ML	MARCHA LOCAL
DI800_41.5	522-020-D	DISPONIBILIDAD
DI800_41.6	522-020-CM	CONF. DE MARCHA
DI800_41.7	522-020-XSL	ICV DESCONECTADO
DI800_41.8	522-020-ML	MARCHA LOCAL
DI800_41.9	522-030-D	DISPONIBILIDAD
DI800_41.10	522-030-CM	CONF. DE MARCHA
DI800_41.11	522-030-XSL	ICV DESCONECTADO
DI800_41.12	522-030-ML	MARCHA LOCAL
DI800_41.13	522-110-D	DISPONIBILIDAD
DI800_41.14	522-110-CM	CONF. DE MARCHA
DI800_41.15	522-110-XSL	ICV DESCONECTADO
DI800_41.16	522-110-ML	MARCHA LOCAL
DI800_42.1	522-120-D	DISPONIBILIDAD
DI800_42.2	522-120-CM	CONF. DE MARCHA
DI800_42.3	522-120-XSL	ICV DESCONECTADO
DI800_42.4	522-120-ML	MARCHA LOCAL
DI800_42.5	579-110-D	DISPONIBILIDAD
DI800_42.6	579-110-CM	CONF. DE MARCHA
DI800_42.7	579-110-XSL	ICV DESCONECTADO
DI800_42.8	579-110-ML	MARCHA LOCAL
DI800_42.9	579-120-D	DISPONIBILIDAD
DI800_42.10	579-120-CM	CONF. DE MARCHA

DI800_42.11	579-120-XSL	ICV DESCONECTADO
DI800_42.12	579-120-ML	MARCHA LOCAL
DI800_42.13	579-130-D	DISPONIBILIDAD
DI800_42.14	579-130-CM	CONF. DE MARCHA
DI800_42.15	579-130-XSL	ICV DESCONECTADO
DI800_42.16	579-130-ML	MARCHA LOCAL
DI800_43.1	579-140-D	DISPONIBILIDAD
DI800_43.2	579-140-CM	CONF. DE MARCHA
DI800_43.3	579-140-XSL	ICV DESCONECTADO
DI800_43.4	579-140-ML	MARCHA LOCAL
DI800_43.5	522-042-D	DISPONIBILIDAD
DI800_43.6	522-042-ZSL	EV CERRADA
DI800_43.7	522-042-ZSH	EV ABIERTA
DI800_43.8	522-052-D	DISPONIBILIDAD
DI800_43.9	522-052-ZSL	EV CERRADA
DI800_43.10	522-052-ZSH	EV ABIERTA
DI800_43.11	522-062-D	DISPONIBILIDAD
DI800_43.12	522-062-ZSL	EV CERRADA
DI800_43.13	522-062-ZSH	EV ABIERTA
DI800_43.14	522-132-D	DISPONIBILIDAD
DI800_43.15	522-132-ZSL	EV CERRADA
DI800_43.16	522-132-ZSH	EV ABIERTA
DI800_44.1	522-142-D	DISPONIBILIDAD
DI800_44.2	522-142-ZSL	EV CERRADA
DI800_44.3	522-142-ZSH	EV ABIERTA
DI800_44.4	579-152-D	DISPONIBILIDAD
DI800_44.5	579-152-ZSL	EV CERRADA
DI800_44.6	579-152-ZSH	EV ABIERTA
DI800_44.7	579-162-D	DISPONIBILIDAD
DI800_44.8	579-162-ZSL	EV CERRADA
DI800_44.9	579-162-ZSH	EV ABIERTA
DI800_44.10	579-172-D	DISPONIBILIDAD
DI800_44.11	579-172-ZSL	EV CERRADA
DI800_44.12	579-172-ZSH	EV ABIERTA
DI800_44.13	579-182-D	DISPONIBILIDAD
DI800_44.14	579-182-ZSL	EV CERRADA
DI800_44.15	579-182-ZSH	EV ABIERTA
DI800_44.16	DI800_44.16	
DI800_45.1	522-044-D	DISPONIBILIDAD
DI800_45.2	522-044-CM2	CONF. DE MARCHA 2
DI800_45.3	522-044-CM1	CONF. DE MARCHA 1
DI800_45.4	522-044-ML1	MARCHA LOCAL 1
DI800_45.5	522-044-ML2	MARCHA LOCAL 2
DI800_45.6	522-044-XSL	ICV DESCONECTADO
DI800_45.7	522-044-ZSHH	APERTURA AL 100%
DI800_45.8	522-044-ZSH	APERTURA AL 30%
DI800_45.9	522-044-ZSL	CIERRE
DI800_45.10	522-054-D	DISPONIBILIDAD

DI800_45.11	522-054-CM2	CONF. DE MARCHA 2
DI800_45.12	522-054-CM1	CONF. DE MARCHA 1
DI800_45.13	522-054-ML1	MARCHA LOCAL 1
DI800_45.14	522-054-ML2	MARCHA LOCAL 2
DI800_45.15	522-054-XSL	ICV DESCONECTADO
DI800_45.16	522-054-ZSHH	APERTURA AL 100%
DI800_46.1	522-054-ZSH	APERTURA AL 30%
DI800_46.2	522-054-ZSL	CIERRE
DI800_46.3	522-064-D	DISPONIBILIDAD
DI800_46.4	522-064-CM2	CONF. DE MARCHA2
DI800_46.5	522-064-CM1	CONF. DE MARCHA 1
DI800_46.6	522-064-ML1	MARCHA LOCAL 1
DI800_46.7	522-064-ML2	MARCHA LOCAL 2
DI800_46.8	522-064-XSL	ICV DESCONECTADO
DI800_46.9	522-064-ZSHH	APERTURA AL 100%
DI800_46.10	522-064-ZSH	APERTURA AL 30%
DI800_46.11	522-064-ZSL	CIERRE
DI800_46.12	522-134-D	DISPONIBILIDAD
DI800_46.13	522-134-CM2	CONF. DE MARCHA 2
DI800_46.14	522-134-CM1	CONF. DE MARCHA 1
DI800_46.15	522-134-ML1	MARCHA LOCAL 1
DI800_46.16	522-134-ML2	MARCHA LOCAL 2
DI800_47.1	522-134-XSL	ICV DESCONECTADO
DI800_47.2	522-134-ZSHH	APERTURA AL 100%
DI800_47.3	522-134-ZSH	APERTURA AL 30%
DI800_47.4	522-134-ZSL	CIERRE
DI800_47.5	522-144-D	DISPONIBILIDAD
DI800_47.6	522-144-CM2	CONF. DE MARCHA 2
DI800_47.7	522-144-CM1	CONF. DE MARCHA 1
DI800_47.8	522-144-ML1	MARCHA LOCAL 1
DI800_47.9	522-144-ML2	MARCHA LOCAL 2
DI800_47.10	522-144-XSL	ICV DESCONECTADO
DI800_47.11	522-144-ZSHH	APERTURA AL 100%
DI800_47.12	522-144-ZSH	APERTURA AL 30%
DI800_47.13	522-144-ZSL	CIERRE
DI800_47.14	579-154-D	DISPONIBILIDAD
DI800_47.15	579-154-CM2	CONF. DE MARCHA 2
DI800_47.16	579-154-CM1	CONF. DE MARCHA 1
DI800_48.1	579-154-ML1	MARCHA LOCAL 1
DI800_48.2	579-154-ML2	MARCHA LOCAL 2
DI800_48.3	579-154-XSL	ICV DESCONECTADO
DI800_48.4	579-154-ZSHH	APERTURA AL 100%
DI800_48.5	579-154-ZSH	APERTURA AL 30%
DI800_48.6	579-154-ZSL	CIERRE
DI800_48.7	579-164-D	DISPONIBILIDAD
DI800_48.8	579-164-CM2	CONF. DE MARCHA 2
DI800_48.9	579-164-CM1	CONF. DE MARCHA 1
DI800_48.10	579-164-ML1	MARCHA LOCAL 1

DI800_48.11	579-164-ML2	MARCHA LOCAL 2
DI800_48.12	579-164-XSL	ICV DESCONECTADO
DI800_48.13	579-164-ZSHH	APERTURA AL 100%
DI800_48.14	579-164-ZSH	APERTURA AL 30%
DI800_48.15	579-164-ZSL	CIERRE
DI800_48.16	579-174-D	DISPONIBILIDAD
DI800_49.1	579-174-CM2	CONF. DE MARCHA 2
DI800_49.2	579-174-CM1	CONF. DE MARCHA 1
DI800_49.3	579-174-ML1	MARCHA LOCAL 1
DI800_49.4	579-174-ML2	MARCHA LOCAL 2
DI800_49.5	579-174-XSL	ICV DESCONECTADO
DI800_49.6	579-174-ZSHH	APERTURA AL 100%
DI800_49.7	579-174-ZSH	APERTURA AL 30%
DI800_49.8	579-174-ZSL	CIERRE
DI800_49.9	579-184-D	DISPONIBILIDAD
DI800_49.10	579-184-CM2	CONF. DE MARCHA 2
DI800_49.11	579-184-CM1	CONF. DE MARCHA 1
DI800_49.12	579-184-ML1	MARCHA LOCAL 1
DI800_49.13	579-184-ML2	MARCHA LOCAL 2
DI800_49.14	579-184-XSL	ICV DESCONECTADO
DI800_49.15	579-184-ZSHH	APERTURA AL 100%
DI800_49.16	579-184-ZSH	APERTURA AL 30%
DI800_50.1	579-184-ZSL	CIERRE
DI800_50.2	579-190-D	DISPONIBILIDAD
DI800_50.3	579-190-CM	CONF. DE MARCHA
DI800_50.4	579-190-XSL	ICV DESCONECTADO
DI800_50.5	579-190-ML	MARCHA LOCAL
DI800_50.6	579-200-D	DISPONIBILIDAD
DI800_50.7	579-200-CM	CONF. DE MARCHA
DI800_50.8	579-200-XSL	ICV DESCONECTADO
DI800_50.9	579-200-ML	MARCHA LOCAL
DI800_50.10	579-191-D	DISPONIBILIDAD
DI800_50.11	579-191-CM	CONF. DE MARCHA
DI800_50.12	579-191-XSL	ICV DESCONECTADO
DI800_50.13	579-191-ML	MARCHA LOCAL
DI800_50.14	DI800_50.14	
DI800_50.15	DI800_50.15	
DI800_50.16	DI800_50.16	
DI800_51.1	579-201-D	DISPONIBILIDAD
DI800_51.2	579-201-CM	CONF. DE MARCHA
DI800_51.3	579-201-XSL	ICV DESCONECTADO
DI800_51.4	579-201-ML	MARCHA LOCAL
DI800_51.5	532-520A-D	DISPONIBILIDAD
DI800_51.6	532-520A-F	DEFECTO
DI800_51.7	532-523-D	DISPONIBILIDAD
DI800_51.8	532-523-CM	CONF. DE MARCHA
DI800_51.9	532-523-XSL	ICV DESCONECTADO
DI800_51.10	532-523-ML	MARCHA LOCAL

DI800_51.11	532-523-CR	CONTROL DE ROTACION
DI800_51.12	532-526-D	DISPONIBILIDAD
DI800_51.13	532-526-CM	CONF. DE MARCHA
DI800_51.14	532-526-XSL	ICV DESCONECTADO
DI800_51.15	532-526-ML	MARCHA LOCAL
DI800_51.16	532-526-CR	CONTROL DE ROTACION
DI800_52.1	579-195-D	DISPONIBILIDAD
DI800_52.2	579-195-CM2	CONF. DE MARCHA 2
DI800_52.3	579-195-CM1	CONF. DE MARCHA 1
DI800_52.4	579-195-XSL	ICV DESCONECTADO
DI800_52.5	579-195-ZSH	MANGA RECOGIDA
DI800_52.6	579-195-ZSL	MANGA BAJA
DI800_52.7	579-195-LSH	SENSOR DE LA MANGA
DI800_52.8	579-195-ZS	PRESENCIA DE CAMION
DI800_52.9	579-195-OSL	ORDEN DE SUBIDA
DI800_52.10	579-195-OBL	ORDEN DE BAJADA
DI800_52.11	579-195-C100	CARGA AL 100%
DI800_52.12	579-195-C50	CARGA AL 50%
DI800_52.13	579-195-PL	PARADA LOCAL
DI800_52.14	579-195-ML	MARCHA LOCAL
DI800_52.15	579-195-PE	PARADA DE EMERGENCIA
DI800_52.16	DI800_52.16	
DI800_53.1	579-205-D	DISPONIBILIDAD
DI800_53.2	579-205-CM2	CONF. DE MARCHA 2
DI800_53.3	579-205-CM1	CONF. DE MARCHA 1
DI800_53.4	579-205-XSL	ICV DESCONECTADO
DI800_53.5	579-205-ZSH	MANGA RECOGIDA
DI800_53.6	579-205-ZSL	MANGA BAJA
DI800_53.7	579-205-LSH	SENSOR DE LA MANGA
DI800_53.8	579-205-ZS	PRESENCIA DE CAMION
DI800_53.9	579-205-OSL	ORDEN DE SUBIDA
DI800_53.10	579-205-OBL	ORDEN DE BAJADA
DI800_53.11	579-205-C100	CARGA AL 100%
DI800_53.12	579-205-C50	CARGA AL 50%
DI800_53.13	579-205-PL	PARADA LOCAL
DI800_53.14	579-205-ML	MARCHA LOCAL
DI800_53.15	579-205-PE	PARADA DE EMERGENCIA
DI800_53.16	DI800_53.16	
DI800_54.1	T_MANGA1_SILO2-D	DISPONIBILIDAD
DI800_54.2	T_MANGA2_SILO2-D	DISPONIBILIDAD
DI800_54.3	579-700-D	DISPONIBILIDAD
DI800_54.4	579-700-CM	CONF. DE MARCHA
DI800_54.5	579-700-XSL	ICV DESCONECTADO
DI800_54.6	579-700-ML	MARCHA LOCAL
DI800_54.7	579-700-P	PRESOSTATO
DI800_54.8	522-700-D	DISPONIBILIDAD
DI800_54.9	522-700-CM	CONF. DE MARCHA
DI800_54.10	522-700-XSL	ICV DESCONECTADO

DI800_54.11	522-700-ML	MARCHA LOCAL
DI800_54.12	522-700-P	PRESOSTATO
DI800_54.13	460-730F-D	DISPONIBILIDAD
DI800_54.14	460-730G-D	DISPONIBILIDAD
DI800_54.15	460-730H-D	DISPONIBILIDAD
DI800_54.16	460-750A-D	DISPONIBILIDAD
DI800_55.1	460-750B-D	DISPONIBILIDAD
DI800_55.2	460-750C-D	DISPONIBILIDAD
DI800_55.3	460-750D-D	DISPONIBILIDAD
DI800_55.4	460-750E-D	DISPONIBILIDAD
DI800_55.5	460-750F-D	DISPONIBILIDAD
DI800_55.6	522-700EV04-D	DISPONIBILIDAD
DI800_55.7	522-700EV08-D	DISPONIBILIDAD
DI800_55.8	522-700EV12-D	DISPONIBILIDAD
DI800_55.9	522-700EV16-D	DISPONIBILIDAD
DI800_55.10	522-700EV20-D	DISPONIBILIDAD
DI800_55.11	579-700EV19-D	DISPONIBILIDAD
DI800_55.12	579-700EV26-D	DISPONIBILIDAD
DI800_55.13	522-043-D	DISPONIBILIDAD
DI800_55.14	522-043-CM	CONF. DE MARCHA
DI800_55.15	522-043-XSL	ICV DESCONECTADO
DI800_55.16	522-043-ML	MARCHA LOCAL
DI800_56.1	522-143-D	DISPONIBILIDAD
DI800_56.2	522-143-CM	CONF. DE MARCHA
DI800_56.3	522-143-XSL	ICV DESCONECTADO
DI800_56.4	522-143-ML	MARCHA LOCAL
DI800_56.5	522-181-D	DISPONIBILIDAD
DI800_56.6	522-181-CM	CONF. DE MARCHA
DI800_56.7	522-181-XSL	ICV DESCONECTADO
DI800_56.8	522-181-ML	MARCHA LOCAL
DI800_56.9	532-361-D	DISPONIBILIDAD
DI800_56.10	532-361-CM	CONF. DE MARCHA
DI800_56.11	532-361-XSL	ICV DESCONECTADO
DI800_56.12	532-361-ML	MARCHA LOCAL
DI800_56.13	532-362-D	DISPONIBILIDAD
DI800_56.14	532-362-CM	CONF. DE MARCHA
DI800_56.15	532-362-XSL	ICV DESCONECTADO
DI800_56.16	532-362-ML	MARCHA LOCAL
DI800_57.1	460-551-D	DISPONIBILIDAD
DI800_57.2	460-551-CM	CONF. DE MARCHA
DI800_57.3	460-551-XSL	ICV DESCONECTADO
DI800_57.4	460-551-ML	MARCHA LOCAL
DI800_57.5	460-553-D	DISPONIBILIDAD
DI800_57.6	460-553-CM	CONF. DE MARCHA
DI800_57.7	460-553-XSL	ICV DESCONECTADO
DI800_57.8	460-553-ML	MARCHA LOCAL
DI800_57.9	460-553-CR	CONTROL DE ROTACION
DI800_57.10	460-555-D	DISPONIBILIDAD

DI800_57.11	460-555-CM	CONF. DE MARCHA
DI800_57.12	460-555-XSL	ICV DESCONECTADO
DI800_57.13	460-555-ML	MARCHA LOCAL
DI800_57.14	DI800_57.14	
DI800_57.15	DI800_57.15	
DI800_57.16	DI800_57.16	
DI800_58.1	460-556-D	DISPONIBILIDAD
DI800_58.2	460-556-CM	CONF. DE MARCHA
DI800_58.3	460-556-XSL	ICV DESCONECTADO
DI800_58.4	460-556-ML	MARCHA LOCAL
DI800_58.5	460-556-CR	CONTROL DE ROTACION
DI800_58.6	522-520A-D	DISPONIBILIDAD
DI800_58.7	522-520A-F	FALLO
DI800_58.8	522-523-D	DISPONIBILIDAD
DI800_58.9	522-523-CM	CONF. DE MARCHA
DI800_58.10	522-523-XSL	ICV DESCONECTADO
DI800_58.11	522-523-ML	MARCHA LOCAL
DI800_58.12	522-523-CR	CONTROL DE ROTACION
DI800_58.13	DI800_58.13	
DI800_58.14	DI800_58.14	
DI800_58.15	DI800_58.15	
DI800_58.16	DI800_58.16	
DI800_59.1	522-525-D	DISPONIBILIDAD
DI800_59.2	522-525-CM	CONF. DE MARCHA
DI800_59.3	522-525-XSL	ICV DESCONECTADO
DI800_59.4	522-525-ML	MARCHA LOCAL
DI800_59.5	522-525-CR	CONTROL DE ROTACION
DI800_59.6	522-550A-D	DISPONIBILIDAD
DI800_59.7	522-550A-F	FALLO
DI800_59.8	522-553-D	DISPONIBILIDAD
DI800_59.9	522-553-CM	CONF. DE MARCHA
DI800_59.10	522-553-XSL	ICV DESCONECTADO
DI800_59.11	522-553-ML	MARCHA LOCAL
DI800_59.12	522-553-CR	CONTROL DE ROTACION
DI800_59.13	DI800_59.13	
DI800_59.14	DI800_59.14	
DI800_59.15	DI800_59.15	
DI800_59.16	DI800_59.16	
DI800_60.1	522-555-D	DISPONIBILIDAD
DI800_60.2	522-555-CM	CONF. DE MARCHA
DI800_60.3	522-555-XSL	ICV DESCONECTADO
DI800_60.4	522-555-ML	MARCHA LOCAL
DI800_60.5	522-555-CR	CONTROL DE ROTACION
DI800_60.6	532-620A-D	DISPONIBILIDAD
DI800_60.7	532-620A-F	FALLO
DI800_60.8	532-623-D	DISPONIBILIDAD
DI800_60.9	532-623-CM	CONF. DE MARCHA
DI800_60.10	532-623-XSL	ICV DESCONECTADO

DI800_60.11	532-623-ML	MARCHA LOCAL
DI800_60.12	532-623-CR	CONTROL DE ROTACION
DI800_60.13	DI800_60.13	
DI800_60.14	DI800_60.14	
DI800_60.15	DI800_60.15	
DI800_60.16	DI800_60.16	
DI800_61.1	532-625-D	DISPONIBILIDAD
DI800_61.2	532-625-CM	CONF. DE MARCHA
DI800_61.3	532-625-XSL	ICV DESCONECTADO
DI800_61.4	532-625-ML	MARCHA LOCAL
DI800_61.5	532-625-CR	CONTROL DE ROTACION
DI800_61.6	532-626-D	DISPONIBILIDAD
DI800_61.7	532-626-CM	CONF. DE MARCHA
DI800_61.8	532-626-XSL	ICV DESCONECTADO
DI800_61.9	532-626-ML	MARCHA LOCAL
DI800_61.10	532-626-CR	CONTROL DE ROTACION
DI800_61.11	DI800_61.11	
DI800_61.12	DI800_61.12	
DI800_61.13	DI800_61.13	
DI800_61.14	DI800_61.14	
DI800_61.15	DI800_61.15	
DI800_61.16	DI800_61.16	
DI800_62.1	522-170-D	DISPONIBILIDAD
DI800_62.2	522-170-CM	CONF. DE MARCHA
DI800_62.3	522-170-XSL	ICV DESCONECTADO
DI800_62.4	522-170-ML	MARCHA LOCAL
DI800_62.5	522-170-LSH	NIVEL ALTO
DI800_62.6	522-170-CR	CONTROL DE ROTACION
DI800_62.7	522-170-ZS1	SENSOR DE CANGILON
DI800_62.8	522-170-ZS2	SENSOR DE CANGILON
DI800_62.9	522-170-ZS3	SENSOR DE CANGILON
DI800_62.10	522-170-ZS4	SENSOR DE CANGILON
DI800_62.11	DI800_62.11	
DI800_62.12	DI800_62.12	
DI800_62.13	DI800_62.13	
DI800_62.14	DI800_62.14	
DI800_62.15	DI800_62.15	
DI800_62.16	DI800_62.16	
DI800_63.1	532-350-D	DISPONIBILIDAD
DI800_63.2	532-350-CM	CONF. DE MARCHA
DI800_63.3	532-350-XSL	ICV DESCONECTADO
DI800_63.4	532-350-ML	MARCHA LOCAL
DI800_63.5	532-350-LSH	NIVEL ALTO
DI800_63.6	532-350-CR	CONTROL DE ROTACION
DI800_63.7	532-350-ZS	SENSOR DE CANGILON
DI800_63.8	532-370-D	DISPONIBILIDAD
DI800_63.9	532-370-CM	CONF. DE MARCHA
DI800_63.10	532-370-XSL	ICV DESCONECTADO

DI800_63.11	532-370-ML	MARCHA LOCAL
DI800_63.12	532-370-CR	CONTROL DE ROTACION
DI800_63.13	532-380-LSHH	NIVEL ALTO TOLVA
DI800_63.14	532-380-LSH	NIVEL MEDIO TOLVA
DI800_63.15	532-380-LSL	NIVEL BAJO TOLVA
DI800_63.16	DI800_63.16	
DI800_64.1	532-390-D	DISPONIBILIDAD
DI800_64.2	532-390-CM	CONF. DE MARCHA
DI800_64.3	532-390-XSL	ICV DESCONECTADO
DI800_64.4	532-390-ML	MARCHA LOCAL
DI800_64.5	532-390-CR	CONTROL DE ROTACION
DI800_64.6	532-400-D	DISPONIBILIDAD
DI800_64.7	532-400-CM	CONF. DE MARCHA
DI800_64.8	532-400-XSL	ICV DESCONECTADO
DI800_64.9	532-400-ML	MARCHA LOCAL
DI800_64.10	532-400-PE	PARADA DE EMERGENCIA
DI800_64.11	532-4002-D	DISPONIBILIDAD
DI800_64.12	532-4002-F	FALLO
DI800_64.13	532-4002-LSH	NIVEL ALTO
DI800_64.14	532-4002-PS	PRESOSTATO
DI800_64.15	532-4002-MENS	MARCHA ENSACADORA
DI800_64.16	532-4002-PENS	PARADA ENSACADORA
DI800_65.1	532-435-D	DISPONIBILIDAD
DI800_65.2	532-435-CM	CONF. DE MARCHA
DI800_65.3	532-435-XSL	ICV DESCONECTADO
DI800_65.4	532-435-ML	MARCHA LOCAL
DI800_65.5	532-430-D	DISPONIBILIDAD
DI800_65.6	532-430-CM	CONF. DE MARCHA
DI800_65.7	532-430-XSL	ICV DESCONECTADO
DI800_65.8	532-430-ML	MARCHA LOCAL
DI800_65.9	532-440-D	DISPONIBILIDAD
DI800_65.10	532-440-CM	CONF. DE MARCHA
DI800_65.11	532-440-XSL	ICV DESCONECTADO
DI800_65.12	532-440-ML	MARCHA LOCAL
DI800_65.13	532-445-D	DISPONIBILIDAD
DI800_65.14	532-445-CM	CONF. DE MARCHA
DI800_65.15	532-445-XSL	ICV DESCONECTADO
DI800_65.16	532-445-ML	MARCHA LOCAL
DI800_66.1	532-450-D	DISPONIBILIDAD
DI800_66.2	532-450-CM	CONF. DE MARCHA
DI800_66.3	532-450-XSL	ICV DESCONECTADO
DI800_66.4	532-450-ML	MARCHA LOCAL
DI800_66.5	532-420-D	DISPONIBILIDAD
DI800_66.6	532-420-CM	CONF. DE MARCHA
DI800_66.7	532-420-XSL	ICV DESCONECTADO
DI800_66.8	532-420-ML	MARCHA LOCAL
DI800_66.9	532-420-PE	PARADA DE EMERGENCIA
DI800_66.10	532-420-CR	CONTROL DE ROTACION

DI800_66.11	532-460-D	DISPONIBILIDAD
DI800_66.12	532-460-CM	CONF. DE MARCHA
DI800_66.13	532-460-XSL	ICV DESCONECTADO
DI800_66.14	532-460-ML	MARCHA LOCAL
DI800_66.15	532-460-PE	PARADA DE EMERGENCIA
DI800_66.16	532-460-CR	CONTROL DE ROTACION
DI800_67.1	532-470-D	DISPONIBILIDAD
DI800_67.2	532-470-CM	CONF. DE MARCHA
DI800_67.3	532-470-XSL	ICV DESCONECTADO
DI800_67.4	532-470-ML	MARCHA LOCAL
DI800_67.5	532-470EV-D	DISPONIBILIDAD
DI800_67.6	532-470EV-ZSH	DESVIADOR ACTIVO
DI800_67.7	532-470EV-ZSL	DESVIADOR INACTIVO
DI800_67.8	532-480-D	DISPONIBILIDAD
DI800_67.9	532-480-CM	CONF. DE MARCHA
DI800_67.10	532-480-XSL	ICV DESCONECTADO
DI800_67.11	532-480-ML	MARCHA LOCAL
DI800_67.12	532-480EV-D	DISPONIBILIDAD
DI800_67.13	532-480EV-ZSH	DESVIADOR ACTIVO
DI800_67.14	532-480EV-ZSL	DESVIADOR INACTIVO
DI800_67.15	DI800_67.15	
DI800_67.16	DI800_67.16	
DI800_68.1	532-481-D	DISPONIBILIDAD
DI800_68.2	532-481-CM2	CONF. DE MARCHA 2
DI800_68.3	532-481-CM1	CONF. DE MARCHA 1
DI800_68.4	532-481-XSL	ICV DESCONECTADO
DI800_68.5	532-481-ML2	MARCHA LOCAL 2
DI800_68.6	532-481-ML1	MARCHA LOCAL 1
DI800_68.7	532-482-D	DISPONIBILIDAD
DI800_68.8	532-482-CM	CONF. DE MARCHA
DI800_68.9	532-482-XSL	ICV DESCONECTADO
DI800_68.10	532-482-ML	MARCHA LOCAL
DI800_68.11	532-486-D	DISPONIBILIDAD
DI800_68.12	532-486-CM2	CONF. DE MARCHA 2
DI800_68.13	532-486-CM1	CONF. DE MARCHA 1
DI800_68.14	532-486-XSL	ICV DESCONECTADO
DI800_68.15	532-486-ML2	MARCHA LOCAL 2
DI800_68.16	532-486-ML1	MARCHA LOCAL 1
DI800_69.1	532-486-OSL	ORDEN DE SUBIDA
DI800_69.2	532-486-OBL	ORDEN DE BAJADA
DI800_69.3	532-486-ADL	ADELANTE
DI800_69.4	532-486-ATL	ATRAS
DI800_69.5	532-486-PES	PETICION DE SACOS
DI800_69.6	532-486-PAS	PARADA DE SACOS
DI800_69.7	532-486-PE	PARADA DE EMERGENCIA
DI800_69.8	532-455-D	DISPONIBILIDAD
DI800_69.9	532-455-CM2	CONF. DE MARCHA 2
DI800_69.10	532-455-CM1	CONF. DE MARCHA 1

DI800_69.11	532-455-XSL	ICV DESCONECTADO
DI800_69.12	532-455-ML2	MARCHA LOCAL 2
DI800_69.13	532-455-ML1	MARCHA LOCAL 1
DI800_69.14	532-455-CR	CONTROL DE ROTACION
DI800_69.15	DI800_69.15	
DI800_69.16	DI800_69.16	
DI800_70.1	PALET-D	
DI800_70.2	PALET-RUN	
DI800_70.3	PALET-F	
DI800_70.4	DI800_70.4	
DI800_70.5	DI800_70.5	
DI800_70.6	DI800_70.6	
DI800_70.7	DI800_70.7	
DI800_70.8	DI800_70.8	
DI800_70.9	DI800_70.9	
DI800_70.10	DI800_70.10	
DI800_70.11	DI800_70.11	
DI800_70.12	DI800_70.12	
DI800_70.13	DI800_70.13	
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DI800_72.16	DI800_72.16
DI800_73.1	DI800_73.1
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DI800_77.12	DI800_77.12
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DI800_80.10	DI800_80.10	
DI800_80.11	DI800_80.11	
DI800_80.12	DI800_80.12	
DI800_80.13	DI800_80.13	
DI800_80.14	DI800_80.14	
DI800_80.15	DI800_80.15	
DI800_80.16	DI800_80.16	
DI800_81.1	CCM3-24V-FALLO	FALTA 24V
DI800_81.2	CCM3-PE	PARADA DE EMERGENCIA
DI800_81.3	CCM3-440V-FALLO	FALTA 440V
DI800_81.4	CLAXON3-D	DISPONIBILIDAD
DI800_81.5	ATA3-110V-FALLO	APERTURA 110V
DI800_81.6	ATA3-24V-FALLO	FALTA 24V
DI800_81.7	ATA3-110V-UPS-FALLO	DEFECTO 110V UPS
DI800_81.8	ATA3-110V-D	DEFECTO 110V
DI800_81.9	ATA3-UPS-FALLO	DEFECTO UPS
DI800_81.10	531-740-D	DISPONIBILIDAD

DI800_81.11	531-740-CM	CONF. DE MARCHA
DI800_81.12	531-740-XSL	ICV DESCONECTADO
DI800_81.13	531-740-ML	MARCHA LOCAL
DI800_81.14	531-740-P	PRESOSTATO
DI800_81.15	DI800_81.15	
DI800_81.16	DI800_81.16	
DI800_82.1	531-760-D	DISPONIBILIDAD
DI800_82.2	531-760-CM	CONF. DE MARCHA
DI800_82.3	531-760-XSL	ICV DESCONECTADO
DI800_82.4	531-760-ML	MARCHA LOCAL
DI800_82.5	ASCENSOR-D	DISPONIBILIDAD
DI800_82.6	ATA3-D	DISPONIBILIDAD
DI800_82.7	ATA3-UPS-D	DISPONIBILIDAD
DI800_82.8	B_GANDOLERO_M1_S3	BOTON GANDOLERO
DI800_82.9	B_GANDOLERO_M2_S3	BOTON GANDOLERO
DI800_82.10	DI800_82.10	
DI800_82.11	DI800_82.11	
DI800_82.12	DI800_82.12	
DI800_82.13	DI800_82.13	
DI800_82.14	DI800_82.14	
DI800_82.15	DI800_82.15	
DI800_82.16	DI800_82.16	
DI800_83.1	523-010-D	DISPONIBILIDAD
DI800_83.2	523-010-CM	CONF. DE MARCHA
DI800_83.3	523-010-XSL	ICV DESCONECTADO
DI800_83.4	523-010-ML	MARCHA LOCAL
DI800_83.5	523-020-D	DISPONIBILIDAD
DI800_83.6	523-020-CM	CONF. DE MARCHA
DI800_83.7	523-020-XSL	ICV DESCONECTADO
DI800_83.8	523-020-ML	MARCHA LOCAL
DI800_83.9	523-110-D	DISPONIBILIDAD
DI800_83.10	523-110-CM	CONF. DE MARCHA
DI800_83.11	523-110-XSL	ICV DESCONECTADO
DI800_83.12	523-110-ML	MARCHA LOCAL
DI800_83.13	579-310-D	DISPONIBILIDAD
DI800_83.14	579-310-CM	CONF. DE MARCHA
DI800_83.15	579-310-XSL	ICV DESCONECTADO
DI800_83.16	579-310-ML	MARCHA LOCAL
DI800_84.1	579-320-D	DISPONIBILIDAD
DI800_84.2	579-320-CM	CONF. DE MARCHA
DI800_84.3	579-320-XSL	ICV DESCONECTADO
DI800_84.4	579-320-ML	MARCHA LOCAL
DI800_84.5	523-032-D	DISPONIBILIDAD
DI800_84.6	523-032-ZSL	CIERRE
DI800_84.7	523-032-ZSH	APERTURA
DI800_84.8	523-042-D	DISPONIBILIDAD
DI800_84.9	523-042-ZSL	CIERRE
DI800_84.10	523-042-ZSH	APERTURA

DI800_84.11	523-122-D	DISPONIBILIDAD
DI800_84.12	523-122-ZSL	CIERRE
DI800_84.13	523-122-ZSH	APERTURA
DI800_84.14	579-332-D	DISPONIBILIDAD
DI800_84.15	579-332-ZSL	CIERRE
DI800_84.16	579-332-ZSH	APERTURA
DI800_85.1	579-342-D	DISPONIBILIDAD
DI800_85.2	579-342-ZSL	CIERRE
DI800_85.3	579-342-ZSH	APERTURA
DI800_85.4	523-034-D	DISPONIBILIDAD
DI800_85.5	523-034-CM2	CONF. DE MARCHA 2
DI800_85.6	523-034-CM1	CONF. DE MARCHA 1
DI800_85.7	523-034-ML1	MARCHA LOCAL 1
DI800_85.8	523-034-ML2	MARCHA LOCAL 2
DI800_85.9	523-034-XSL	ICV DESCONECTADO
DI800_85.10	523-034-ZSHH	APERTURA AL 100%
DI800_85.11	523-034-ZSH	APERTURA AL 30%
DI800_85.12	523-034-ZSL	CIERRE
DI800_85.13	523-044-D	DISPONIBILIDAD
DI800_85.14	523-044-CM2	CONF. DE MARCHA 2
DI800_85.15	523-044-CM1	CONF. DE MARCHA 1
DI800_85.16	523-044-ML1	MARCHA LOCAL 1
DI800_86.1	523-044-ML2	MARCHA LOCAL 2
DI800_86.2	523-044-XSL	ICV DESCONECTADO
DI800_86.3	523-044-ZSHH	APERTURA AL 100%
DI800_86.4	523-044-ZSH	APERTURA AL 30%
DI800_86.5	523-044-ZSL	CIERRE
DI800_86.6	523-124-D	DISPONIBILIDAD
DI800_86.7	523-124-CM2	CONF. DE MARCHA 2
DI800_86.8	523-124-CM1	CONF. DE MARCHA 1
DI800_86.9	523-124-ML1	MARCHA LOCAL 1
DI800_86.10	523-124-ML2	MARCHA LOCAL 2
DI800_86.11	523-124-XSL	ICV DESCONECTADO
DI800_86.12	523-124-ZSHH	APERTURA AL 100%
DI800_86.13	523-124-ZSH	APERTURA AL 30%
DI800_86.14	523-124-ZSL	CIERRE
DI800_86.15	579-334-D	DISPONIBILIDAD
DI800_86.16	579-334-CM2	CONF. DE MARCHA 2
DI800_87.1	579-334-CM1	CONF. DE MARCHA 1
DI800_87.2	579-334-ML1	MARCHA LOCAL 1
DI800_87.3	579-334-ML2	MARCHA LOCAL 2
DI800_87.4	579-334-XSL	ICV DESCONECTADO
DI800_87.5	579-334-ZSHH	APERTURA AL 100%
DI800_87.6	579-334-ZSH	APERTURA AL 30%
DI800_87.7	579-334-ZSL	CIERRE
DI800_87.8	579-344-D	DISPONIBILIDAD
DI800_87.9	579-344-CM2	CONF. DE MARCHA 2
DI800_87.10	579-344-CM1	CONF. DE MARCHA 1

DI800_87.11	579-344-ML1	MARCHA LOCAL 1
DI800_87.12	579-344-ML2	MARCHA LOCAL 2
DI800_87.13	579-344-XSL	ICV DESCONECTADO
DI800_87.14	579-344-ZSHH	APERTURA AL 100%
DI800_87.15	579-344-ZSH	APERTURA AL 30%
DI800_87.16	579-344-ZSL	CIERRE
DI800_88.1	579-350-D	DISPONIBILIDAD
DI800_88.2	579-350-CM	CONF. DE MARCHA
DI800_88.3	579-350-XSL	ICV DESCONECTADO
DI800_88.4	579-350-ML	MARCHA LOCAL
DI800_88.5	579-360-D	DISPONIBILIDAD
DI800_88.6	579-360-CM	CONF. DE MARCHA
DI800_88.7	579-360-XSL	ICV DESCONECTADO
DI800_88.8	579-360-ML	MARCHA LOCAL
DI800_88.9	579-351-D	DISPONIBILIDAD
DI800_88.10	579-351-CM	CONF. DE MARCHA
DI800_88.11	579-351-XSL	ICV DESCONECTADO
DI800_88.12	579-351-ML	MARCHA LOCAL
DI800_88.13	579-361-D	DISPONIBILIDAD
DI800_88.14	579-361-CM	CONF. DE MARCHA
DI800_88.15	579-361-XSL	ICV DESCONECTADO
DI800_88.16	579-361-ML	MARCHA LOCAL
DI800_89.1	579-355-D	DISPONIBILIDAD
DI800_89.2	579-355-CM2	CONF. DE MARCHA 2
DI800_89.3	579-355-CM1	CONF. DE MARCHA 1
DI800_89.4	579-355-XSL	ICV DESCONECTADO
DI800_89.5	579-355-ZSH	MANGA RECOGIDA
DI800_89.6	579-355-ZSL	MANGA BAJA
DI800_89.7	579-355-LSH	NIVEL DE LA MANGA
DI800_89.8	579-355-ZS	PRESENCIA DE CAMION
DI800_89.9	579-355-OSL	ORDEN DE SUBIDA
DI800_89.10	579-355-OBL	ORDEN DE BAJADA
DI800_89.11	579-355-C100	CARGA AL 100%
DI800_89.12	579-355-C50	CARGA AL 50%
DI800_89.13	579-355-PL	PARADA LOCAL
DI800_89.14	579-355-ML	MARCHA LOCAL
DI800_89.15	579-355-PE	PARADA DE EMERGENCIA
DI800_89.16	DI800_89.16	
DI800_90.1	579-365-D	DISPONIBILIDAD
DI800_90.2	579-365-CM2	CONF. DE MARCHA 2
DI800_90.3	579-365-CM1	CONF. DE MARCHA 1
DI800_90.4	579-365-XSL	ICV DESCONECTADO
DI800_90.5	579-365-ZSH	MANGA RECOGIDA
DI800_90.6	579-365-ZSL	MANGA BAJA
DI800_90.7	579-365-LSH	NIVEL DE LA MANGA
DI800_90.8	579-365-ZS	PRESENCIA DE CAMION
DI800_90.9	579-365-OSL	ORDEN DE SUBIDA
DI800_90.10	579-365-OBL	ORDEN DE BAJADA

DI800_90.11	579-365-C100	CARGA AL 100%
DI800_90.12	579-365-C50	CARGA AL 50%
DI800_90.13	579-365-PL	PARADA LOCAL
DI800_90.14	579-365-ML	MARCHA LOCAL
DI800_90.15	579-365-PE	PARADA DE EMERGENCIA
DI800_90.16	DI800_90.16	
DI800_91.1	T_MANGA1_SILO3-D	DISPONIBILIDAD
DI800_91.2	T_MANGA2_SILO3-D	DISPONIBILIDAD
DI800_91.3	523-700-D	DISPONIBILIDAD
DI800_91.4	523-700-CM	CONF. DE MARCHA
DI800_91.5	523-700-XSL	ICV DESCONECTADO
DI800_91.6	523-700-ML	MARCHA LOCAL
DI800_91.7	523-700-P	PRESOSTATO
DI800_91.8	523-710-D	DISPONIBILIDAD
DI800_91.9	523-710-CM	CONF. DE MARCHA
DI800_91.10	523-710-XSL	ICV DESCONECTADO
DI800_91.11	523-710-ML	MARCHA LOCAL
DI800_91.12	523-720-D	DISPONIBILIDAD
DI800_91.13	523-720-CM	CONF. DE MARCHA
DI800_91.14	523-720-XSL	ICV DESCONECTADO
DI800_91.15	523-720-ML	MARCHA LOCAL
DI800_91.16	DI800_91.16	
DI800_92.1	523-730-D	DISPONIBILIDAD
DI800_92.2	523-730-CM1	CONF. DE MARCHA 1
DI800_92.3	523-730-CM2	CONF. DE MARCHA 2
DI800_92.4	523-730-XSL	ICV DESCONECTADO
DI800_92.5	523-730-ML1	MARCHA LOCAL 1
DI800_92.6	523-730-ML2	MARCHA LOCAL 2
DI800_92.7	460-750I-D	DISPONIBILIDAD
DI800_92.8	460-750J-D	DISPONIBILIDAD
DI800_92.9	523-700EV04-D	DISPONIBILIDAD
DI800_92.10	523-700EV11-D	DISPONIBILIDAD
DI800_92.11	579-710EV30-D	DISPONIBILIDAD
DI800_92.12	579-710EV32-D	DISPONIBILIDAD
DI800_92.13	523-131-D	DISPONIBILIDAD
DI800_92.14	523-131-CM	CONF. DE MARCHA
DI800_92.15	523-131-XSL	ICV DESCONECTADO
DI800_92.16	523-131-ML	MARCHA LOCAL
DI800_93.1	523-181-D	DISPONIBILIDAD
DI800_93.2	523-181-CM	CONF. DE MARCHA
DI800_93.3	523-181-XSL	ICV DESCONECTADO
DI800_93.4	523-181-ML	MARCHA LOCAL
DI800_93.5	523-183-D	DISPONIBILIDAD
DI800_93.6	523-183-CM	CONF. DE MARCHA
DI800_93.7	523-183-XSL	ICV DESCONECTADO
DI800_93.8	523-183-ML	MARCHA LOCAL
DI800_93.9	460-580-D	DISPONIBILIDAD
DI800_93.10	460-580-F	FALLO

DI800_93.11	460-583-D	DISPONIBILIDAD
DI800_93.12	460-583-CM	CONF. DE MARCHA
DI800_93.13	460-583-XSL	ICV DESCONECTADO
DI800_93.14	460-583-ML	MARCHA LOCAL
DI800_93.15	460-583-CR	CONTROL DE ROTACION
DI800_93.16	DI800_93.16	
DI800_94.1	460-586-D	DISPONIBILIDAD
DI800_94.2	460-586-CM	CONF. DE MARCHA
DI800_94.3	460-586-XSL	ICV DESCONECTADO
DI800_94.4	460-586-ML	MARCHA LOCAL
DI800_94.5	460-586-CR	CONTROL DE ROTACION
DI800_94.6	523-520A-D	DISPONIBILIDAD
DI800_94.7	523-520A-F	FALLO
DI800_94.8	523-523-D	DISPONIBILIDAD
DI800_94.9	523-523-CM	CONF. DE MARCHA
DI800_94.10	523-523-XSL	ICV DESCONECTADO
DI800_94.11	523-523-ML	MARCHA LOCAL
DI800_94.12	523-525-D	DISPONIBILIDAD
DI800_94.13	523-525-CM	CONF. DE MARCHA
DI800_94.14	523-525-XSL	ICV DESCONECTADO
DI800_94.15	523-525-ML	MARCHA LOCAL
DI800_94.16	523-525-CR	CONTROL DE ROTACION
DI800_95.1	523-550A-D	DISPONIBILIDAD
DI800_95.2	523-550A-F	FALLO
DI800_95.3	523-553-D	DISPONIBILIDAD
DI800_95.4	523-553-CM	CONF. DE MARCHA
DI800_95.5	523-553-XSL	ICV DESCONECTADO
DI800_95.6	523-553-ML	MARCHA LOCAL
DI800_95.7	523-555-D	DISPONIBILIDAD
DI800_95.8	523-555-CM	CONF. DE MARCHA
DI800_95.9	523-555-XSL	ICV DESCONECTADO
DI800_95.10	523-555-ML	MARCHA LOCAL
DI800_95.11	523-555-CR	CONTROL DE ROTACION
DI800_95.12	543-620A-D	DISPONIBILIDAD
DI800_95.13	543-620A-F	FALLO
DI800_95.14	DI800_95.14	
DI800_95.15	DI800_95.15	
DI800_95.16	DI800_95.16	
DI800_96.1	543-623-D	DISPONIBILIDAD
DI800_96.2	543-623-CM	CONF. DE MARCHA
DI800_96.3	543-623-XSL	ICV DESCONECTADO
DI800_96.4	543-623-ML	MARCHA LOCAL
DI800_96.5	543-623-CR	CONTROL DE ROTACION
DI800_96.6	543-625-D	DISPONIBILIDAD
DI800_96.7	543-625-CM	CONF. DE MARCHA
DI800_96.8	543-625-XSL	ICV DESCONECTADO
DI800_96.9	543-625-ML	MARCHA LOCAL
DI800_96.10	543-625-CR	CONTROL DE ROTACION

DI800_96.11	543-626-D	DISPONIBILIDAD
DI800_96.12	543-626-CM	CONF. DE MARCHA
DI800_96.13	543-626-XSL	ICV DESCONECTADO
DI800_96.14	543-626-ML	MARCHA LOCAL
DI800_96.15	543-626-CR	CONTROL DE ROTACION
DI800_96.16	DI800_96.16	
DI800_97.1	543-627-D	DISPONIBILIDAD
DI800_97.2	543-627-CM1	CONF. DE MARCHA 1
DI800_97.3	543-627-CM2	CONF. DE MARCHA 2
DI800_97.4	543-627-XSL	ICV DESCONECTADO
DI800_97.5	543-627-ML1	MARCHA LOCAL 1
DI800_97.6	543-627-ML2	MARCHA LOCAL 2
DI800_97.7	543-627-CR	CONTROL DE ROTACION
DI800_97.8	579-331-D	DISPONIBILIDAD
DI800_97.9	579-331-CM	CONF. DE MARCHA
DI800_97.10	579-331-XSL	ICV DESCONECTADO
DI800_97.11	579-331-ML	MARCHA LOCAL
DI800_97.12	579-341-D	DISPONIBILIDAD
DI800_97.13	579-341-CM	CONF. DE MARCHA
DI800_97.14	579-341-XSL	ICV DESCONECTADO
DI800_97.15	579-341-ML	MARCHA LOCAL
DI800_97.16	DI800_97.16	
DI800_98.1	523-170-D	DISPONIBILIDAD
DI800_98.2	523-170-CM	CONF. DE MARCHA
DI800_98.3	523-170-XSL	ICV DESCONECTADO
DI800_98.4	523-170-ML	MARCHA LOCAL
DI800_98.5	523-170-LSH	NIVEL ALTO
DI800_98.6	523-170-CR	CONTROL DE ROTACION
DI800_98.7	523-170-ZS1	SENSOR DE CANGILON
DI800_98.8	523-170-ZS2	SENSOR DE CANGILON
DI800_98.9	523-170-ZS3	SENSOR DE CANGILON
DI800_98.10	523-170-ZS4	SENSOR DE CANGILON
DI800_98.11	523-051-D	DISPONIBILIDAD
DI800_98.12	523-051-CM	CONF. DE MARCHA
DI800_98.13	523-051-XSL	ICV DESCONECTADO
DI800_98.14	523-051-ML	MARCHA LOCAL
DI800_98.15	DI800_98.15	
DI800_98.16	DI800_98.16	
DI800_99.1	543-350-D	DISPONIBILIDAD
DI800_99.2	543-350-CM	CONF. DE MARCHA
DI800_99.3	543-350-XSL	ICV DESCONECTADO
DI800_99.4	543-350-ML	MARCHA LOCAL
DI800_99.5	543-350-LSH	NIVEL ALTO
DI800_99.6	543-350-CR	CONTROL DE ROTACION
DI800_99.7	543-350-ZS1	SENSOR DE CANGILON
DI800_99.8	543-350-ZS2	SENSOR DE CANGILON
DI800_99.9	543-350-ZS3	SENSOR DE CANGILON
DI800_99.10	543-350-ZS4	SENSOR DE CANGILON

DI800_99.11	543-370-D	DISPONIBILIDAD
DI800_99.12	543-370-CM	CONF. DE MARCHA
DI800_99.13	543-370-XSL	ICV DESCONECTADO
DI800_99.14	543-370-ML	MARCHA LOCAL
DI800_99.15	543-370-CR	CONTROL DE ROTACION
DI800_99.16	DI800_99.16	
DI800_100.1	543-380-LSHH	NIVEL ALTO
DI800_100.2	543-380-LSH	NIVEL MEDIO
DI800_100.3	543-380-LSL	NIVEL BAJO
DI800_100.4	543-380-P	PRESOSTATO
DI800_100.5	543-390-D	DISPONIBILIDAD
DI800_100.6	543-390-CM	CONF. DE MARCHA
DI800_100.7	543-390-XSL	ICV DESCONECTADO
DI800_100.8	543-390-ML	MARCHA LOCAL
DI800_100.9	543-390-CR	CONTROL DE ROTACION
DI800_100.10	DI800_100.10	
DI800_100.11	DI800_100.11	
DI800_100.12	DI800_100.12	
DI800_100.13	DI800_100.13	
DI800_100.14	DI800_100.14	
DI800_100.15	DI800_100.15	
DI800_100.16	DI800_100.16	
DI800_101.1	543-400-D	DISPONIBILIDAD
DI800_101.2	543-400-CM	CONF. DE MARCHA
DI800_101.3	543-400-XSL	ICV DESCONECTADO
DI800_101.4	543-400-ML	MARCHA LOCAL
DI800_101.5	543-400-PE	PARADA DE EMERGENCIA
DI800_101.6	543-400-F	FALLO CONVERTIDOR
DI800_101.7	543-400-MARCHA	MARCHA MOTOR
DI800_101.8	543-400-PES	PETICION DE SACOS
DI800_101.9	543-400-FG	FALLO GENERAL
DI800_101.10	543-400-FP	FALLO DE PESO
DI800_101.11	543-400-LSL	NIVEL BAJO
DI800_101.12	DI800_101.12	
DI800_101.13	DI800_101.13	
DI800_101.14	DI800_101.14	
DI800_101.15	DI800_101.15	
DI800_101.16	DI800_101.16	
DI800_102.1	543-435-D	DISPONIBILIDAD
DI800_102.2	543-435-CM	CONF. DE MARCHA
DI800_102.3	543-435-XSL	ICV DESCONECTADO
DI800_102.4	543-435-ML	MARCHA LOCAL
DI800_102.5	543-435-PE	PARADA DE EMERGENCIA
DI800_102.6	543-435-CR	CONTROL DE ROTACION
DI800_102.7	543-435-FP	FALLO DE PESO
DI800_102.8	543-435-F	DEFECTO
DI800_102.9	543-441-D	DISPONIBILIDAD
DI800_102.10	543-441-CM	CONF. DE MARCHA

DI800_102.11	543-441-XSL	ICV DESCONECTADO
DI800_102.12	543-441-ML	MARCHA LOCAL
DI800_102.13	543-443-D	DISPONIBILIDAD
DI800_102.14	543-443-CM	CONF. DE MARCHA
DI800_102.15	543-443-XSL	ICV DESCONECTADO
DI800_102.16	543-443-ML	MARCHA LOCAL
DI800_103.1	543-442-D	DISPONIBILIDAD
DI800_103.2	543-442-CM	CONF. DE MARCHA
DI800_103.3	543-442-XSL	ICV DESCONECTADO
DI800_103.4	543-442-ML	MARCHA LOCAL
DI800_103.5	543-442-PE	PARADA DE EMERGENCIA
DI800_103.6	543-442-SUB	SUBIDA
DI800_103.7	543-442-ZS	SENSOR OPTICO
DI800_103.8	543-450-D	DISPONIBILIDAD
DI800_103.9	543-450-CM	CONF. DE MARCHA
DI800_103.10	543-450-XSL	ICV DESCONECTADO
DI800_103.11	543-450-ML	MARCHA LOCAL
DI800_103.12	543-455-D	DISPONIBILIDAD
DI800_103.13	543-455-CM	CONF. DE MARCHA
DI800_103.14	543-455-XSL	ICV DESCONECTADO
DI800_103.15	543-455-ML	MARCHA LOCAL
DI800_103.16	DI800_103.16	
DI800_104.1	543-460-D	DISPONIBILIDAD
DI800_104.2	543-460-CM	CONF. DE MARCHA
DI800_104.3	543-460-XSL	ICV DESCONECTADO
DI800_104.4	543-460-ML	MARCHA LOCAL
DI800_104.5	543-420-D	DISPONIBILIDAD
DI800_104.6	543-420-CM	CONF. DE MARCHA
DI800_104.7	543-420-XSL	ICV DESCONECTADO
DI800_104.8	543-420-ML	MARCHA LOCAL
DI800_104.9	543-420-PE	PARADA DE EMERGENCIA
DI800_104.10	543-420-CR	CONTROL DE ROTACION
DI800_104.11	543-420-ZS	SENSOR OPTICO
DI800_104.12	543-440-D	DISPONIBILIDAD
DI800_104.13	543-440-CM	CONF. DE MARCHA
DI800_104.14	543-440-XSL	ICV DESCONECTADO
DI800_104.15	543-440-ML	MARCHA LOCAL
DI800_104.16	543-440-CR	CONTROL DE ROTACION
DI800_105.1	543-490-D	DISPONIBILIDAD
DI800_105.2	543-490-CM	CONF. DE MARCHA
DI800_105.3	543-490-XSL	ICV DESCONECTADO
DI800_105.4	543-490-ML	MARCHA LOCAL
DI800_105.5	543-490-PE	PARADA DE EMERGENCIA
DI800_105.6	543-490-CR	CONTROL DE ROTACION
DI800_105.7	543-490-ZS	DESVIACION DE BANDA
DI800_105.8	543-470-D	DISPONIBILIDAD
DI800_105.9	543-470-CM1	CONF. DE MARCHA 1
DI800_105.10	543-470-CM2	CONF. DE MARCHA 2

DI800_105.11	543-470-XSL	ICV DESCONECTADO
DI800_105.12	543-470-ML1	MARCHA LOCAL 1
DI800_105.13	543-470-ML2	MARCHA LOCAL 2
DI800_105.14	543-470-CR	CONTROL DE ROTACION
DI800_105.15	PALET-M-D	DISPONIBILIDAD
DI800_105.16	PALET-M-CM	CONF. DE MARCHA
DI800_106.1	DI800_106.1	
DI800_106.2	DI800_106.2	
DI800_106.3	DI800_106.3	
DI800_106.4	DI800_106.4	
DI800_106.5	DI800_106.5	
DI800_106.6	DI800_106.6	
DI800_106.7	DI800_106.7	
DI800_106.8	DI800_106.8	
DI800_106.9	DI800_106.9	
DI800_106.10	DI800_106.10	
DI800_106.11	DI800_106.11	
DI800_106.12	DI800_106.12	
DI800_106.13	DI800_106.13	
DI800_106.14	DI800_106.14	
DI800_106.15	DI800_106.15	
DI800_106.16	DI800_106.16	
DI800_107.1	DI800_107.1	
DI800_107.2	DI800_107.2	
DI800_107.3	DI800_107.3	
DI800_107.4	DI800_107.4	
DI800_107.5	DI800_107.5	
DI800_107.6	DI800_107.6	
DI800_107.7	DI800_107.7	
DI800_107.8	DI800_107.8	
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DI800_107.10	DI800_107.10	
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DI800_107.12	DI800_107.12	
DI800_107.13	DI800_107.13	
DI800_107.14	DI800_107.14	
DI800_107.15	DI800_107.15	
DI800_107.16	DI800_107.16	
DI800_108.1	DI800_108.1	
DI800_108.2	DI800_108.2	
DI800_108.3	DI800_108.3	
DI800_108.4	DI800_108.4	
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DI800_108.7	DI800_108.7	
DI800_108.8	DI800_108.8	
DI800_108.9	DI800_108.9	
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DI800_108.12	DI800_108.12
DI800_108.13	DI800_108.13
DI800_108.14	DI800_108.14
DI800_108.15	DI800_108.15
DI800_108.16	DI800_108.16
DI800_109.1	DI800_109.1
DI800_109.2	DI800_109.2
DI800_109.3	DI800_109.3
DI800_109.4	DI800_109.4
DI800_109.5	DI800_109.5
DI800_109.6	DI800_109.6
DI800_109.7	DI800_109.7
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DI800_109.9	DI800_109.9
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DI800_109.12	DI800_109.12
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DI800_109.14	DI800_109.14
DI800_109.15	DI800_109.15
DI800_109.16	DI800_109.16
DI800_110.1	DI800_110.1
DI800_110.2	DI800_110.2
DI800_110.3	DI800_110.3
DI800_110.4	DI800_110.4
DI800_110.5	DI800_110.5
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DI800_110.7	DI800_110.7
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DI800_110.9	DI800_110.9
DI800_110.10	DI800_110.10
DI800_110.11	DI800_110.11
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DI800_110.14	DI800_110.14
DI800_110.15	DI800_110.15
DI800_110.16	DI800_110.16
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DI800_111.8	DI800_111.8
DI800_111.9	DI800_111.9
DI800_111.10	DI800_111.10

DI800_111.11	DI800_111.11
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DI800_111.13	DI800_111.13
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DI800_111.16	DI800_111.16
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DI800_112.16	DI800_112.16
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DI800_113.15	DI800_113.15
DI800_113.16	DI800_113.16
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DI800_114.2	DI800_114.2
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DI800_114.8	DI800_114.8
DI800_114.9	DI800_114.9
DI800_114.10	DI800_114.10

DI800_114.11	DI800_114.11
DI800_114.12	DI800_114.12
DI800_114.13	DI800_114.13
DI800_114.14	DI800_114.14
DI800_114.15	DI800_114.15
DI800_114.16	DI800_114.16

SALIDAS DIGITALES (DO800_X.Y)

DOS820	NAME	DESCR
DO800_1.1	CCM1-DISPARO	DISPARO
DO800_1.2	CLAXON1-OM	ORDEN DE MARCHA
DO800_1.3	579-010-OM	ORDEN DE MARCHA
DO800_1.4	579-020-OM	ORDEN DE MARCHA
DO800_1.5	579-030-OM	ORDEN DE MARCHA
DO800_1.6	579-040-OM	ORDEN DE MARCHA
DO800_1.7	521-010-OM	ORDEN DE MARCHA
DO800_1.8	521-020-OM	ORDEN DE MARCHA
DO800_2.1	521-030-OM	ORDEN DE MARCHA
DO800_2.2	521-110-OM	ORDEN DE MARCHA
DO800_2.3	521-120-OM	ORDEN DE MARCHA
DO800_2.4	579-052-OM1	ORDEN DE MARCHA 1
DO800_2.5	579-052-OM2	ORDEN DE MARCHA 2
DO800_2.6	579-062-OM1	ORDEN DE MARCHA 1
DO800_2.7	579-062-OM2	ORDEN DE MARCHA 2
DO800_2.8	DO800_2.8	
DO800_3.1	579-072-OM1	ORDEN DE MARCHA 1
DO800_3.2	579-072-OM2	ORDEN DE MARCHA 2
DO800_3.3	579-082-OM1	ORDEN DE MARCHA 1
DO800_3.4	579-082-OM2	ORDEN DE MARCHA 2
DO800_3.5	521-042-OM1	ORDEN DE MARCHA 1
DO800_3.6	521-042-OM2	ORDEN DE MARCHA 2
DO800_3.7	521-052-OM1	ORDEN DE MARCHA 1
DO800_3.8	521-052-OM2	ORDEN DE MARCHA 2
DO800_4.1	521-062-OM1	ORDEN DE MARCHA 1
DO800_4.2	521-062-OM2	ORDEN DE MARCHA 2
DO800_4.3	521-132-OM1	ORDEN DE MARCHA 1
DO800_4.4	521-132-OM2	ORDEN DE MARCHA 2
DO800_4.5	521-142-OM1	ORDEN DE MARCHA 1
DO800_4.6	521-142-OM2	ORDEN DE MARCHA 2
DO800_4.7	579-054-OM2	ORDEN DE MARCHA 2
DO800_4.8	579-054-OM1	ORDEN DE MARCHA 1
DO800_5.1	579-064-OM2	ORDEN DE MARCHA 2
DO800_5.2	579-064-OM1	ORDEN DE MARCHA 1
DO800_5.3	579-074-OM2	ORDEN DE MARCHA 2
DO800_5.4	579-074-OM1	ORDEN DE MARCHA 1
DO800_5.5	579-084-OM2	ORDEN DE MARCHA 2
DO800_5.6	579-084-OM1	ORDEN DE MARCHA 1

DO800_5.7	521-044-OM2	ORDEN DE MARCHA 2
DO800_5.8	521-044-OM1	ORDEN DE MARCHA 1
DO800_6.1	521-054-OM2	ORDEN DE MARCHA 2
DO800_6.2	521-054-OM1	ORDEN DE MARCHA 1
DO800_6.3	521-064-OM2	ORDEN DE MARCHA 2
DO800_6.4	521-064-OM1	ORDEN DE MARCHA 1
DO800_6.5	521-134-OM2	ORDEN DE MARCHA 2
DO800_6.6	521-134-OM1	ORDEN DE MARCHA 1
DO800_6.7	521-144-OM2	ORDEN DE MARCHA 2
DO800_6.8	521-144-OM1	ORDEN DE MARCHA 1
DO800_7.1	579-090-OM	ORDEN DE MARCHA
DO800_7.2	579-100-OM	ORDEN DE MARCHA
DO800_7.3	579-091-OM	ORDEN DE MARCHA
DO800_7.4	579-101-OM	ORDEN DE MARCHA
DO800_7.5	579-095-OM2	ORDEN DE MARCHA 2
DO800_7.6	579-095-OM1	ORDEN DE MARCHA 1
DO800_7.7	579-095-PPA	PREPARADO
DO800_7.8	DO800_7.8	
DO800_8.1	579-105-OM2	ORDEN DE MARCHA 2
DO800_8.2	579-105-OM1	ORDEN DE MARCHA 1
DO800_8.3	579-105-PPA	PRERPARADO
DO800_8.4	TIMER-M1-S1-OM	ORDEN DE MARCHA
DO800_8.5	TIMER-M2-S1-OM	ORDEN DE MARCHA
DO800_8.6	579-710-OM	ORDEN DE MARCHA
DO800_8.7	521-700-OM	ORDEN DE MARCHA
DO800_8.8	460-730B-OM	ORDEN DE MARCHA
DO800_9.1	460-730C-OM	ORDEN DE MARCHA
DO800_9.2	460-730D-OM	ORDEN DE MARCHA
DO800_9.3	460-730E-OM	ORDEN DE MARCHA
DO800_9.4	460-730I-OM	ORDEN DE MARCHA
DO800_9.5	460-730J-OM	ORDEN DE MARCHA
DO800_9.6	460-730K-OM	ORDEN DE MARCHA
DO800_9.7	460-750G-OM	ORDEN DE MARCHA
DO800_9.8	460-750H-OM	ORDEN DE MARCHA
DO800_10.1	579-710EV07-OM	ORDEN DE MARCHA
DO800_10.2	579-710EV11-OM	ORDEN DE MARCHA
DO800_10.3	521-700EV04-OM	ORDEN DE MARCHA
DO800_10.4	521-700EV11-OM	ORDEN DE MARCHA
DO800_10.5	521-700EV15-OM	ORDEN DE MARCHA
DO800_10.6	521-043-OM	ORDEN DE MARCHA
DO800_10.7	521-151-OM	ORDEN DE MARCHA
DO800_10.8	521-181-OM	ORDEN DE MARCHA
DO800_11.1	521-191-OM	ORDEN DE MARCHA
DO800_11.2	460-521-OM	ORDEN DE MARCHA
DO800_11.3	460-523-OM	ORDEN DE MARCHA
DO800_11.4	460-525-OM	ORDEN DE MARCHA
DO800_11.5	460-526-OM	ORDEN DE MARCHA
DO800_11.6	531-621-OM	ORDEN DE MARCHA

DO800_11.7	531-622-OM	ORDEN DE MARCHA
DO800_11.8	531-623-OM	ORDEN DE MARCHA
DO800_12.1	531-626-OM	ORDEN DE MARCHA
DO800_12.2	531-651-OM	ORDEN DE MARCHA
DO800_12.3	531-652-OM	ORDEN DE MARCHA
DO800_12.4	531-653-OM	ORDEN DE MARCHA
DO800_12.5	531-655-OM	ORDEN DE MARCHA
DO800_12.6	521-520B-OM	ORDEN DE MARCHA
DO800_12.7	521-523-OM	ORDEN DE MARCHA
DO800_12.8	521-525-OM	ORDEN DE MARCHA
DO800_13.1	521-550B-OM	ORDEN DE MARCHA
DO800_13.2	521-553-OM	ORDEN DE MARCHA
DO800_13.3	551-555-OM	ORDEN DE MARCHA
DO800_13.4	560-506-OM	ORDEN DE MARCHA
DO800_13.5	560-521-OM	ORDEN DE MARCHA
DO800_13.6	560-526-OM	ORDEN DE MARCHA
DO800_13.7	521-170-OM	ORDEN DE MARCHA
DO800_13.8	531-350-OM	ORDEN DE MARCHA
DO800_14.1	531-370-OM	ORDEN DE MARCHA
DO800_14.2	531-400-OM	ORDEN DE MARCHA
DO800_14.3	531-420-OM	ORDEN DE MARCHA
DO800_14.4	531-460-OM	ORDEN DE MARCHA
DO800_14.5	531-470-OM	ORDEN DE MARCHA
DO800_14.6	531-470EV-OM	ORDEN DE MARCHA
DO800_14.7	531-471-OM2	ORDEN DE MARCHA 2
DO800_14.8	531-471-OM1	ORDEN DE MARCHA 1
DO800_15.1	531-472-OM	ORDEN DE MARCHA
DO800_15.2	531-476-OM2	ORDEN DE MARCHA 2
DO800_15.3	531-476-OM1	ORDEN DE MARCHA 1
DO800_15.4	531-480-OM	ORDEN DE MARCHA
DO800_15.5	531-455-OM	ORDEN DE MARCHA
DO800_15.6	DO800_15.6	
DO800_15.7	DO800_15.7	
DO800_15.8	DO800_15.8	
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DO800_17.7	DO800_17.7	
DO800_17.8	DO800_17.8	
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DO800_20.8	DO800_20.8	
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DO800_21.8	DO800_21.8	
DO800_22.1	CCM2-DISPARO	DISPARO
DO800_22.2	CLAXON2-OM	ORDEN DE MARCHA
DO800_22.3	522-010-OM	ORDEN DE MARCHA
DO800_22.4	522-020-OM	ORDEN DE MARCHA
DO800_22.5	522-030-OM	ORDEN DE MARCHA
DO800_22.6	522-110-OM	ORDEN DE MARCHA
DO800_22.7	522-120-OM	ORDEN DE MARCHA
DO800_22.8	579-110-OM	ORDEN DE MARCHA
DO800_23.1	579-120-OM	ORDEN DE MARCHA
DO800_23.2	579-130-OM	ORDEN DE MARCHA
DO800_23.3	579-140-OM	ORDEN DE MARCHA
DO800_23.4	522-042-OM1	ORDEN DE MARCHA 1
DO800_23.5	522-042-OM2	ORDEN DE MARCHA 2
DO800_23.6	522-052-OM1	ORDEN DE MARCHA 1

DO800_23.7	522-052-OM2	ORDEN DE MARCHA 2
DO800_23.8	DO800_23.8	
DO800_24.1	522-062-OM1	ORDEN DE MARCHA 1
DO800_24.2	522-062-OM2	ORDEN DE MARCHA 2
DO800_24.3	522-132-OM1	ORDEN DE MARCHA 1
DO800_24.4	522-132-OM2	ORDEN DE MARCHA 2
DO800_24.5	522-142-OM1	ORDEN DE MARCHA 1
DO800_24.6	522-142-OM2	ORDEN DE MARCHA 2
DO800_24.7	579-152-OM1	ORDEN DE MARCHA 1
DO800_24.8	579-152-OM2	ORDEN DE MARCHA 2
DO800_25.1	579-162-OM1	ORDEN DE MARCHA 1
DO800_25.2	579-162-OM2	ORDEN DE MARCHA 2
DO800_25.3	579-172-OM1	ORDEN DE MARCHA 1
DO800_25.4	579-172-OM2	ORDEN DE MARCHA 2
DO800_25.5	579-182-OM1	ORDEN DE MARCHA 1
DO800_25.6	579-182-OM2	ORDEN DE MARCHA 2
DO800_25.7	522-044-OM2	ORDEN DE MARCHA 2
DO800_25.8	522-044-OM1	ORDEN DE MARCHA 1
DO800_26.1	522-054-OM2	ORDEN DE MARCHA 2
DO800_26.2	522-054-OM1	ORDEN DE MARCHA 1
DO800_26.3	522-064-OM2	ORDEN DE MARCHA 2
DO800_26.4	522-064-OM1	ORDEN DE MARCHA 1
DO800_26.5	522-134-OM2	ORDEN DE MARCHA 2
DO800_26.6	522-134-OM1	ORDEN DE MARCHA 1
DO800_26.7	522-144-OM2	ORDEN DE MARCHA 2
DO800_26.8	522-144-OM1	ORDEN DE MARCHA 1
DO800_27.1	579-154-OM2	ORDEN DE MARCHA 2
DO800_27.2	579-154-OM1	ORDEN DE MARCHA 1
DO800_27.3	579-164-OM2	ORDEN DE MARCHA 2
DO800_27.4	579-164-OM1	ORDEN DE MARCHA 1
DO800_27.5	579-174-OM2	ORDEN DE MARCHA 2
DO800_27.6	579-174-OM1	ORDEN DE MARCHA 1
DO800_27.7	579-184-OM2	ORDEN DE MARCHA 2
DO800_27.8	579-184-OM1	ORDEN DE MARCHA 1
DO800_28.1	579-190-OM	ORDEN DE MARCHA
DO800_28.2	579-200-OM	ORDEN DE MARCHA
DO800_28.3	579-191-OM	ORDEN DE MARCHA
DO800_28.4	579-201-OM	ORDEN DE MARCHA
DO800_28.5	579-195-OM2	ORDEN DE MARCHA 2
DO800_28.6	579-195-OM1	ORDEN DE MARCHA 1
DO800_28.7	579-195-PPA	PREPARADO
DO800_28.8	DO800_28.8	
DO800_29.1	579-205-OM2	ORDEN DE MARCHA 2
DO800_29.2	579-205-OM1	ORDEN DE MARCHA 1
DO800_29.3	579-205-PPA	PREPARADO
DO800_29.4	TIMER-M1-S2-OM	ORDEN DE MARCHA
DO800_29.5	TIMER-M2-S2-OM	ORDEN DE MARCHA
DO800_29.6	579-700-OM	ORDEN DE MARCHA

DO800_29.7	522-700-OM	ORDEN DE MARCHA
DO800_29.8	460-730F-OM	ORDEN DE MARCHA
DO800_30.1	460-730G-OM	ORDEN DE MARCHA
DO800_30.2	460-730H-OM	ORDEN DE MARCHA
DO800_30.3	460-750A-OM	ORDEN DE MARCHA
DO800_30.4	460-750B-OM	ORDEN DE MARCHA
DO800_30.5	460-750C-OM	ORDEN DE MARCHA
DO800_30.6	460-750D-OM	ORDEN DE MARCHA
DO800_30.7	460-750E-OM	ORDEN DE MARCHA
DO800_30.8	460-750F-OM	ORDEN DE MARCHA
DO800_31.1	522-700EV04-OM	ORDEN DE MARCHA
DO800_31.2	522-700EV08-OM	ORDEN DE MARCHA
DO800_31.3	522-700EV12-OM	ORDEN DE MARCHA
DO800_31.4	522-700EV16-OM	ORDEN DE MARCHA
DO800_31.5	522-700EV20-OM	ORDEN DE MARCHA
DO800_31.6	579-700EV19-OM	ORDEN DE MARCHA
DO800_31.7	579-700EV26-OM	ORDEN DE MARCHA
DO800_31.8	522-043-OM	ORDEN DE MARCHA
DO800_32.1	522-143-OM	ORDEN DE MARCHA
DO800_32.2	522-181-OM	ORDEN DE MARCHA
DO800_32.3	532-361-OM	ORDEN DE MARCHA
DO800_32.4	532-362-OM	ORDEN DE MARCHA
DO800_32.5	460-551-OM	ORDEN DE MARCHA
DO800_32.6	460-553-OM	ORDEN DE MARCHA
DO800_32.7	460-555-OM	ORDEN DE MARCHA
DO800_32.8	460-556-OM	ORDEN DE MARCHA
DO800_33.1	522-520A-OM	ORDEN DE MARCHA
DO800_33.2	522-523-OM	ORDEN DE MARCHA
DO800_33.3	522-525-OM	ORDEN DE MARCHA
DO800_33.4	522-550A-OM	ORDEN DE MARCHA
DO800_33.5	522-553-OM	ORDEN DE MARCHA
DO800_33.6	522-555-OM	ORDEN DE MARCHA
DO800_33.7	532-320A-OM	ORDEN DE MARCHA
DO800_33.8	532-623-OM	ORDEN DE MARCHA
DO800_34.1	532-625-OM	ORDEN DE MARCHA
DO800_34.2	532-626-OM	ORDEN DE MARCHA
DO800_34.3	522-170-OM	ORDEN DE MARCHA
DO800_34.4	532-350-OM	ORDEN DE MARCHA
DO800_34.5	532-370-OM	ORDEN DE MARCHA
DO800_34.6	532-390-OM	ORDEN DE MARCHA
DO800_34.7	532-400-OM	ORDEN DE MARCHA
DO800_34.8	DO800_34.8	
DO800_35.1	532-400-LIB-SACOS	LIBERA SACOS
DO800_35.2	532-400-DEM-TARADO	DEMANDA DE TARADO
DO800_35.3	532-400-APL-MANUAL	APLICACION MANUAL
DO800_35.4	532-400-APL-AUTOM	APLICACION AUTO
DO800_35.5	532-435-OM	ORDEN DE MARCHA
DO800_35.6	532-430-OM	ORDEN DE MARCHA

DO800_35.7	532-440-OM	ORDEN DE MARCHA
DO800_35.8	532-445-OM	ORDEN DE MARCHA
DO800_36.1	532-450-OM	ORDEN DE MARCHA
DO800_36.2	532-420-OM	ORDEN DE MARCHA
DO800_36.3	532-460-OM	ORDEN DE MARCHA
DO800_36.4	532-470-OM	ORDEN DE MARCHA
DO800_36.5	532-470EV-OM	ORDEN DE MARCHA
DO800_36.6	532-480-OM	ORDEN DE MARCHA
DO800_36.7	532-481-OM2	ORDEN DE MARCHA 2
DO800_36.8	532-481-OM1	ORDEN DE MARCHA 1
DO800_37.1	532-482-OM	ORDEN DE MARCHA
DO800_37.2	532-486-OM2	ORDEN DE MARCHA 2
DO800_37.3	421-486-OM1	ORDEN DE MARCHA 1
DO800_37.4	532-455-OM2	ORDEN DE MARCHA 2
DO800_37.5	532-455-OM1	ORDEN DE MARCHA 1
DO800_37.6	DO800_37.6	
DO800_37.7	DO800_37.7	
DO800_37.8	DO800_37.8	
DO800_38.1	DO800_38.1	
DO800_38.2	DO800_38.2	
DO800_38.3	DO800_38.3	
DO800_38.4	DO800_38.4	
DO800_38.5	DO800_38.5	
DO800_38.6	DO800_38.6	
DO800_38.7	DO800_38.7	
DO800_38.8	DO800_38.8	
DO800_39.1	DO800_39.1	
DO800_39.2	DO800_39.2	
DO800_39.3	DO800_39.3	
DO800_39.4	DO800_39.4	
DO800_39.5	DO800_39.5	
DO800_39.6	DO800_39.6	
DO800_39.7	DO800_39.7	
DO800_39.8	DO800_39.8	
DO800_40.1	DO800_40.1	
DO800_40.2	DO800_40.2	
DO800_40.3	DO800_40.3	
DO800_40.4	DO800_40.4	
DO800_40.5	DO800_40.5	
DO800_40.6	DO800_40.6	
DO800_40.7	DO800_40.7	
DO800_40.8	DO800_40.8	
DO800_41.1	CCM3-DISPARO	DISPARO
DO800_41.2	CLAXON3-OM	ORDEN DE MARCHA
DO800_41.3	531-740-OM	ORDEN DE MARCHA
DO800_41.4	531-760-OM	ORDEN DE MARCHA
DO800_41.5	523-010-OM	ORDEN DE MARCHA
DO800_41.6	523-020-OM	ORDEN DE MARCHA

DO800_41.7	523-110-OM	ORDEN DE MARCHA
DO800_41.8	579-310-OM	ORDEN DE MARCHA
DO800_42.1	579-320-OM	ORDEN DE MARCHA
DO800_42.2	523-032-OM1	ORDEN DE MARCHA 1
DO800_42.3	523-032-OM2	ORDEN DE MARCHA 2
DO800_42.4	523-042-OM1	ORDEN DE MARCHA 1
DO800_42.5	523-042-OM2	ORDEN DE MARCHA 2
DO800_42.6	523-122-OM1	ORDEN DE MARCHA 1
DO800_42.7	523-122-OM2	ORDEN DE MARCHA 2
DO800_42.8	DO800_42.8	
DO800_43.1	579-332-OM1	ORDEN DE MARCHA 1
DO800_43.2	579-332-OM2	ORDEN DE MARCHA 2
DO800_43.3	579-342-OM1	ORDEN DE MARCHA 1
DO800_43.4	579-342-OM2	ORDEN DE MARCHA 2
DO800_43.5	523-034-OM2	ORDEN DE MARCHA 2
DO800_43.6	523-034-OM1	ORDEN DE MARCHA 1
DO800_43.7	523-044-OM2	ORDEN DE MARCHA 2
DO800_43.8	523-044-OM1	ORDEN DE MARCHA 1
DO800_44.1	523-124-OM2	ORDEN DE MARCHA 2
DO800_44.2	523-124-OM1	ORDEN DE MARCHA 1
DO800_44.3	579-334-OM2	ORDEN DE MARCHA 2
DO800_44.4	579-334-OM1	ORDEN DE MARCHA 1
DO800_44.5	579-344-OM2	ORDEN DE MARCHA 2
DO800_44.6	579-344-OM1	ORDEN DE MARCHA 1
DO800_44.7	579-350-OM	ORDEN DE MARCHA
DO800_44.8	579-360-OM	ORDEN DE MARCHA
DO800_45.1	579-351-OM	ORDEN DE MARCHA
DO800_45.2	579-361-OM	ORDEN DE MARCHA
DO800_45.3	579-355-OM2	ORDEN DE MARCHA 2
DO800_45.4	579-355-OM1	ORDEN DE MARCHA 1
DO800_45.5	579-355-PPA	PREPARADO
DO800_45.6	579-365-OM2	ORDEN DE MARCHA 2
DO800_45.7	579-365-OM1	ORDEN DE MARCHA 1
DO800_45.8	579-365-PPA	PREPARADO
DO800_46.1	TIMER-M1-S3-OM	ORDEN DE MARCHA
DO800_46.2	TIMER-M2-S3-OM	ORDEN DE MARCHA
DO800_46.3	523-700-OM	ORDEN DE MARCHA
DO800_46.4	523-710-OM	ORDEN DE MARCHA
DO800_46.5	523-720-OM	ORDEN DE MARCHA
DO800_46.6	523-730-OM1	ORDEN DE MARCHA 1
DO800_46.7	523-730-OM2	ORDEN DE MARCHA 2
DO800_46.8	460-750I-OM	ORDEN DE MARCHA
DO800_47.1	460-750J-OM	ORDEN DE MARCHA
DO800_47.2	523-700EV04-OM	ORDEN DE MARCHA
DO800_47.3	523-700EV11-OM	ORDEN DE MARCHA
DO800_47.4	579-710EV30-OM	ORDEN DE MARCHA
DO800_47.5	579-710EV32-OM	ORDEN DE MARCHA
DO800_47.6	523-131-OM	ORDEN DE MARCHA

DO800_47.7	523-181-OM	ORDEN DE MARCHA
DO800_47.8	523-183-OM	ORDEN DE MARCHA
DO800_48.1	460-580-OM	ORDEN DE MARCHA
DO800_48.2	460-583-OM	ORDEN DE MARCHA
DO800_48.3	460-586-OM	ORDEN DE MARCHA
DO800_48.4	523-520A-OM	ORDEN DE MARCHA
DO800_48.5	523-523-OM	ORDEN DE MARCHA
DO800_48.6	523-525-OM	ORDEN DE MARCHA
DO800_48.7	523-550A-OM	ORDEN DE MARCHA
DO800_48.8	523-553-OM	ORDEN DE MARCHA
DO800_49.1	523-555-OM	ORDEN DE MARCHA
DO800_49.2	543-620A-OM	ORDEN DE MARCHA
DO800_49.3	543-623-OM	ORDEN DE MARCHA
DO800_49.4	543-625-OM	ORDEN DE MARCHA
DO800_49.5	543-626-OM	ORDEN DE MARCHA
DO800_49.6	543-627-OM1	ORDEN DE MARCHA 1
DO800_49.7	543-627-OM2	ORDEN DE MARCHA 2
DO800_49.8	523-170-OM	ORDEN DE MARCHA
DO800_50.1	543-350-OM	ORDEN DE MARCHA
DO800_50.2	543-370-OM	ORDEN DE MARCHA
DO800_50.3	543-390-OM	ORDEN DE MARCHA
DO800_50.4	579-331-OM	ORDEN DE MARCHA
DO800_50.5	579-341-OM	ORDEN DE MARCHA
DO800_50.6	523-051-OM	ORDEN DE MARCHA
DO800_50.7	DO800_50.7	
DO800_50.8	DO800_50.8	
DO800_51.1	543-400-OM	ORDEN DE MARCHA
DO800_51.2	543-400-EYECC-SACOS	EYECCION DE SACOS
DO800_51.3	543-400-DIST-AUT-MAN	DIST AUTOM/MANUAL
DO800_51.4	543-400-SSL	BAJA VELOCIDAD
DO800_51.5	543-400-SSH	MEDIA VELOCIDAD
DO800_51.6	543-400-SSHH	ALTA VELOCIDAD
DO800_51.7	543-400-CONV-OM	ORDEN DE MARCHA
DO800_51.8	DO800_51.8	
DO800_52.1	543-400S-CAMB-TARA	CAMBIO DE TARA
DO800_52.2	543-400S-SEL-PROD1	SELECCION PRODUCTO
DO800_52.3	543-400S-SEL-PROD2	SELECCION PRODUCTO
DO800_52.4	543-400S-SEL-PROD3	SELECCION PRODUCTO
DO800_52.5	543-400S-SEL-PROD4	SELECCION PRODUCTO
DO800_52.6	543-400S-SEL-PROD5	SELECCION PRODUCTO
DO800_52.7	543-400S-VALIDO	VALIDACION
DO800_52.8	543-435-OM	ORDEN DE MARCHA
DO800_53.1	543-441-OM	ORDEN DE MARCHA
DO800_53.2	543-443-OM	ORDEN DE MARCHA
DO800_53.3	543-442-OM	ORDEN DE MARCHA
DO800_53.4	543-450-OM	ORDEN DE MARCHA
DO800_53.5	543-455-OM	ORDEN DE MARCHA
DO800_53.6	543-460-OM	ORDEN DE MARCHA

DO800_53.7	543-420-OM	ORDEN DE MARCHA
DO800_53.8	543-440-OM	ORDEN DE MARCHA
DO800_54.1	543-490-OM	ORDEN DE MARCHA
DO800_54.2	543-470-OM1	ORDEN DE MARCHA 1
DO800_54.3	543-470-OM2	ORDEN DE MARCHA 2
DO800_54.4	DO800_54.4	
DO800_54.5	DO800_54.5	
DO800_54.6	DO800_54.6	
DO800_54.7	DO800_54.7	
DO800_54.8	DO800_54.8	

ENTRADAS DIGITALES CALCULADAS (DIC)

DIC	NAME		
DIC1825	START_FILTRO_GPC2	DIC1859	SEQ_460_556_GPC2
DIC1826	STOP_FILTRO_GPC2	DIC1860	RUN_HB1_GPC13
DIC1827	RUN_460_521_GPC1	DIC1861	START_FILTRO1_GPC12
DIC1828	RUN_460_523_GPC1	DIC1862	START_FILTRO2_GPC12
DIC1829	RUN_460_525_GPC1	DIC1863	START_532_460_GPC13
DIC1830	RUN_460_526_GPC1	DIC1864	NOINT_532_460_GPC3
DIC1831	SEQ_460_521_GPC1	DIC1865	SEQ_532_460_GPC3
DIC1832	SEQ_460_523_GPC1	DIC1866	START_SOPL_GPC21
DIC1833	SEQ_460_525_GPC1	DIC1867	START_FILTRO_2_GPC22
DIC1834	SEQ_460_526_GPC1	DIC1868	START_FILTRO_3_GPC22
DIC1835	RUN_FLUX_GPC3	DIC1869	START_523_700_GPC22
DIC1836	531_380_ZSH_GPC3	DIC1870	RUN_FILTRO_2_GPC2
DIC1837	RUN_531_350_GPC3	DIC1871	NOINT_460_583_GPC21
DIC1838	NOINT_460_521_GPC1	DIC1872	SEQ_460_583_GPC21
DIC1839	NOINT_460_523_GPC1	DIC1873	RUN_HB2_GPC23
DIC1840	NOINT_460_525_GPC1	DIC1874	RUN_DESC_A_FLUX_GPC2
DIC1841	NOINT_460_526_GPC1	DIC1875	NOINT_460_586_GPC21
DIC1842	START_FILTRO_GPC11	DIC1876	SEQ_460_586_GPC21
DIC1843	START_SOPL_GPC11	DIC1877	GR_S1_M1_RUN_GPC1
DIC1844	CM_SOPL_GPC1	DIC1878	GR_S1_M2_RUN_GPC1
DIC1845	SEQ_523_700_GPC1	DIC1879	GR_S2_M1_RUN_GPC11
DIC1846	NOINT_523_700_GPC1	DIC1880	GR_S2_M2_RUN_GPC11
DIC1847	SEQ_579_700_GPC1	DIC1881	GR_S3_M1_RUN_GPC21
DIC1848	NOINT_579_700_GPC1	DIC1882	GR_S3_M2_RUN_GPC21
DIC1849	SEQ_579_710_GPC1	DIC1883	E-EXTR-CEME1-RUN1
DIC1850	NOINT_579_710_GPC1	DIC1884	E-EXTR-CEME1-AVAL1
DIC1851	APAGADO_FILTRO_GPC11	DIC1885	E-EXTR-CEME1-FAIL1
DIC1852	NOINT_460_551_GPC2	DIC1886	E-EXTR-CEME2-RUN1
DIC1853	SEQ_460_551_GPC2	DIC1887	E-EXTR-CEME2-AVAL1
DIC1854	NOINT_460_553_GPC2	DIC1888	E-EXTR-CEME2-FAIL1
DIC1855	SEQ_460_553_GPC2	DIC1889	E-EXTR-CEME3-RUN1
DIC1856	NOINT_460_555_GPC2	DIC1890	E-EXTR-CEME3-AVAL1
DIC1857	SEQ_460_555_GPC2	DIC1891	E-EXTR-CEME3-FAIL1
DIC1858	NOINT_460_556_GPC2	DIC1892	E-EXTR-PACK1-RUN
		DIC1893	E-EXTR-PACK1-AVAL

DIC1894	E-EXTR-PACK1-FAIL	DIC1913	E-EXTR-CEME2-RUN2
DIC1895	E-EXTR-PACK2-RUN	DIC1914	E-EXTR-CEME2-AVAL2
DIC1896	E-EXTR-PACK2-AVAL	DIC1915	E-EXTR-CEME2-FAIL2
DIC1897	E-EXTR-PACK2-FAIL	DIC1916	E-EXTR-CEME3-RUN2
DIC1898	E-EXTR-PACK3-RUN	DIC1917	E-EXTR-CEME3-AVAL2
DIC1899	E-EXTR-PACK3-AVAL	DIC1918	E-EXTR-CEME3-FAIL2
DIC1900	E-EXTR-PACK3-FAIL	DIC1919	APAGADO_SOPL_GPC11
DIC1901	E-SACK-PACK1-RUN	DIC1920	STOP_FILTRO1_GPC12
DIC1902	E-SACK-PACK1-AVAL	DIC1921	STOP_FILTRO2_GPC12
DIC1903	E-SACK-PACK1-FAIL	DIC1922	RUN_460_551_GPC2
DIC1904	E-SACK-PACK2-RUN	DIC1923	RUN_460_553_GPC2
DIC1905	E-SACK-PACK2-AVAL	DIC1924	RUN_460_555_GPC2
DIC1906	E-SACK-PACK2-FAIL	DIC1925	RUN_460_556_GPC2
DIC1907	E-SACK-PACK3-RUN	DIC1926	LSH_532_480_GPC13
DIC1908	E-SACK-PACK3-AVAL	DIC1927	APAGADO_SOPL_GPC21
DIC1909	E-SACK-PACK3-FAIL	DIC1928	STOP_FILTRO2_GPC22
DIC1910	E-EXTR-CEME1-RUN2	DIC1929	STOP_FILTRO3_GPC22
DIC1911	E-EXTR-CEME1-AVAL2	DIC1930	RUN_460_583_GPC21
DIC1912	E-EXTR-CEME1-FAIL2	DIC1931	RUN_460_586_GPC21

SALIDAS DIGITALES CALCULADAS (DOC)

DOC	NAME	DOC458	E-EXTR-CEME3-SEL230
DOC433	E-EXTR-CEME1-SELA30	DOC459	E-EXTR-CEME3-SEL2100
DOC434	E-EXTR-CEME1-SELA100	DOC460	E-EXT1-PACK1-SELE30
DOC435	E-EXTR-CEME1-SELB30	DOC461	E-EXT1-PACK1-SELE100
DOC436	E-EXTR-CEME1-SELB100	DOC462	E-EXT1-PACK1-SELF30
DOC437	E-EXTR-CEME1-SELI30	DOC463	E-EXT1-PACK1-SELF100
DOC438	E-EXTR-CEME1-SELI100	DOC464	E-EXT1-PACK1-SELG30
DOC439	E-EXTR-CEME1-SELJ30	DOC465	E-EXT1-PACK1-SELG100
DOC440	E-EXTR-CEME1-SELJ100	DOC466	E-EXT2-PACK1-SELD30
DOC441	E-EXTR-CEME1-SELM1	DOC467	E-EXT2-PACK1-SELD100
DOC442	E-EXTR-CEME1-SELM2	DOC468	E-EXT2-PACK1-SELE30
DOC443	E-EXTR-PACK3-SEL1	DOC469	E-EXT2-PACK1-SELE100
DOC444	E-EXTR-CEME2-SEL1	DOC470	E-EXTR-PACK1-START
DOC445	E-EXTR-CEME1-SEL1	DOC471	E-EXTR-PACK1-STOP
DOC446	E-EXTR-CEME2-SELA30	DOC472	E-EXT1-PACK2-SELC30
DOC447	E-EXTR-CEME2-SELA100	DOC473	E-EXT1-PACK2-SELC100
DOC448	E-EXTR-CEME2-SELB30	DOC474	E-EXT1-PACK2-SELD30
DOC449	E-EXTR-CEME2-SELB100	DOC475	E-EXT1-PACK2-SELD100
DOC450	E-EXTR-CEME2-SELI30	DOC476	E-EXT1-PACK2-SELH30
DOC451	E-EXTR-CEME2-SELI100	DOC477	E-EXT1-PACK2-SELH100
DOC452	E-EXTR-CEME2-SELJ30	DOC478	E-EXT2-PACK2-SELC30
DOC453	E-EXTR-CEME2-SELJ100	DOC479	E-EXT2-PACK2-SELC100
DOC454	E-EXTR-CEME2-SELM1	DOC480	E-EXT2-PACK2-SELH30
DOC455	E-EXTR-CEME2-SELM2	DOC481	E-EXT2-PACK2-SELH100
DOC456	E-EXTR-CEME3-SEL130	DOC482	E-EXTR-PACK2-START
DOC457	E-EXTR-CEME3-SEL1100	DOC483	E-EXTR-PACK2-STOP

DOC484	E-EXT2-PACK3-SELF30	DOC498	E-SACK-PACK2-SEL1
DOC485	E-EXT2-PACK3-SELF100	DOC499	E-SACK-PACK2-SEL2
DOC486	E-EXT2-PACK3-SELG30	DOC500	E-SACK-PACK2-START
DOC487	E-EXT2-PACK3-SELG100	DOC501	E-SACK-PACK2-STOP
DOC488	E-EXT3-PACK3-SEL330	DOC502	E-SACK-PACK3-START
DOC489	E-EXT3-PACK3-SEL3100	DOC503	E-SACK-PACK3-STOP
DOC490	E-EXTR-PACK3-START	DOC504	E-EXTR-CEME1-RESET
DOC491	E-EXTR-PACK3-STOP	DOC505	E-EXTR-PACK1-RESET
DOC492	E-EXTR-PACK3-SEL2	DOC506	E-SACK-PACK1-RESET
DOC493	E-EXTR-PACK3-SEL3	DOC507	E-EXTR-PACK2-RESET
DOC494	E-SACK-PACK1-SEL1	DOC508	E-EXTR-CEME3-RESET
DOC495	E-SACK-PACK1-SEL2	DOC509	E-EXTR-PACK3-RESET
DOC496	E-SACK-PACK1-START	DOC510	E-SACK-PACK3-RESET
DOC497	E-SACK-PACK1-STOP		

ELEMENTOS DE CONTROL DE MOTORES (MOTCON)

MOTCON	NAME	MMCX51	521-191
MMCX1	460-521	MMCX52	521-181
MMCX2	460-523	MMCX53	521-170
MMCX3	460-525	MMCX54	521-043
MMCX4	460-526	MMCX55	521-151
MMCX5	523-700	MMCX56	521-044
MMCX6	579-700	MMCX57	521-054
MMCX7	579-710	MMCX58	521-064
MMCX8	579-091	MMCX59	521-134
MMCX9	579-101	MMCX60	521-144
MMCX10	579-054	MMCX66	521-010
MMCX11	579-064	MMCX67	521-020
MMCX12	579-074	MMCX68	521-030
MMCX13	579-084	MMCX69	521-110
MMCX14	579-010	MMCX70	521-120
MMCX15	579-020	MMCX71	531-621
MMCX16	579-030	MMCX72	531-622
MMCX17	579-040	MMCX73	531-623
MMCX18	579-090	MMCX74	531-626
MMCX19	579-100	MMCX75	531-651
MMCX20	579-095	MMCX76	531-652
MMCX21	579-105	MMCX77	531-653
MMCX34	460-551	MMCX78	531-655
MMCX35	460-555	MMCX79	532-460
MMCX36	460-556	MMCX80	531-420
MMCX37	460-553	MMCX81	531-370
MMCX38	521-700	MMCX82	531-350
MMCX47	521-555	MMCX83	531-455
MMCX48	521-553	MMCX84	531-400
MMCX49	521-525	MMCX85	531-472
MMCX50	521-523	MMCX86	532-482

MMCX87	531-470	MMCX164	579-334
MMCX89	531-460	MMCX165	579-344
MMCX90	531-480	MMCX166	579-310
MMCX92	531-471	MMCX167	579-320
MMCX93	532-481	MMCX172	579-350
MMCX94	531-476	MMCX173	579-360
MMCX95	532-486	MMCX174	579-355
MMCX100	579-191	MMCX175	579-365
MMCX101	579-201	MMCX176	523-730
MMCX104	579-154	MMCX177	523-710
MMCX105	579-164	MMCX178	523-720
MMCX106	579-174	MMCX183	523-523
MMCX107	579-184	MMCX184	523-525
MMCX112	579-110	MMCX185	523-553
MMCX113	579-120	MMCX186	523-555
MMCX114	579-130	MMCX187	523-181
MMCX115	579-140	MMCX188	523-183
MMCX118	579-190	MMCX189	523-170
MMCX119	579-200	MMCX190	523-051
MMCX120	579-195	MMCX191	523-131
MMCX121	579-205	MMCX192	523-034
MMCX122	522-700	MMCX193	523-044
MMCX133	522-523	MMCX194	523-124
MMCX134	522-525	MMCX198	523-010
MMCX135	522-553	MMCX199	523-020
MMCX136	522-555	MMCX200	523-110
MMCX137	522-181	MMCX201	543-623
MMCX138	522-170	MMCX202	543-625
MMCX139	522-043	MMCX203	543-626
MMCX140	522-143	MMCX204	543-627
MMCX141	522-044	MMCX205	543-490
MMCX142	522-054	MMCX206	543-443
MMCX143	522-064	MMCX207	543-441
MMCX144	522-134	MMCX208	543-442
MMCX145	522-144	MMCX209	543-450
MMCX151	522-010	MMCX210	543-455
MMCX152	522-020	MMCX211	543-460
MMCX153	522-030	MMCX212	543-440
MMCX154	522-110	MMCX213	543-435
MMCX155	522-120	MMCX214	543-420
MMCX156	460-583	MMCX215	543-470
MMCX157	460-586	MMCX216	543-400
MMCX158	579-351	MMCX217	543-390
MMCX159	579-361	MMCX218	543-370
MMCX162	579-331	MMCX219	543-350
MMCX163	579-341		

ELEMENTOS DE CONTROL DE VÁLVULAS (VALVECON)

VALVECON	NAME	MMCX	VALVECON
		MMCX108	579-152
MMCX22	460-730B	MMCX109	579-162
MMCX23	460-730C	MMCX110	579-172
MMCX24	460-730D	MMCX111	579-182
MMCX25	460-730E	MMCX116	T_MANGA1_SILO2
MMCX26	579-710EV07	MMCX117	T_MANGA2_SILO2
MMCX27	579-710EV11	MMCX123	460-730F
MMCX28	579-052	MMCX124	460-730G
MMCX29	579-062	MMCX125	460-730H
MMCX30	579-072	MMCX126	460-750E
MMCX31	579-082	MMCX127	460-750F
MMCX32	T_MANGA1_SILO1	MMCX128	522-700EV04
MMCX33	T_MANGA2_SILO1	MMCX129	522-700EV08
MMCX39	460-730I	MMCX130	522-700EV12
MMCX40	460-730J	MMCX131	522-700EV16
MMCX41	460-730K	MMCX132	522-700EV20
MMCX42	460-750G	MMCX146	522-042
MMCX43	460-750H	MMCX147	522-052
MMCX44	521-700EV04	MMCX148	522-062
MMCX45	521-700EV11	MMCX149	522-132
MMCX46	521-700EV15	MMCX150	522-142
MMCX61	521-042	MMCX160	579-710EV30
MMCX62	521-052	MMCX161	579-710EV32
MMCX63	521-062	MMCX168	579-332
MMCX64	521-132	MMCX169	579-342
MMCX65	521-142	MMCX170	T_MANGA1_SILO3
MMCX88	531-470EV	MMCX171	T_MANGA2_SILO3
MMCX91	531-390EV	MMCX179	460-750I
MMCX96	460-750A	MMCX180	460-750J
MMCX97	460-750B	MMCX181	523-700EV04
MMCX98	460-750C	MMCX182	523-700EV11
MMCX99	460-750D	MMCX195	523-032
MMCX102	579-700EV19	MMCX196	523-042
MMCX103	579-700EV26	MMCX197	523-122

[Anexo 9] Sección del programa

En las siguientes páginas se muestra la sección del programa correspondiente a la lógica para la apertura de las compuertas motorizadas del silo 1 para la descarga a granel.

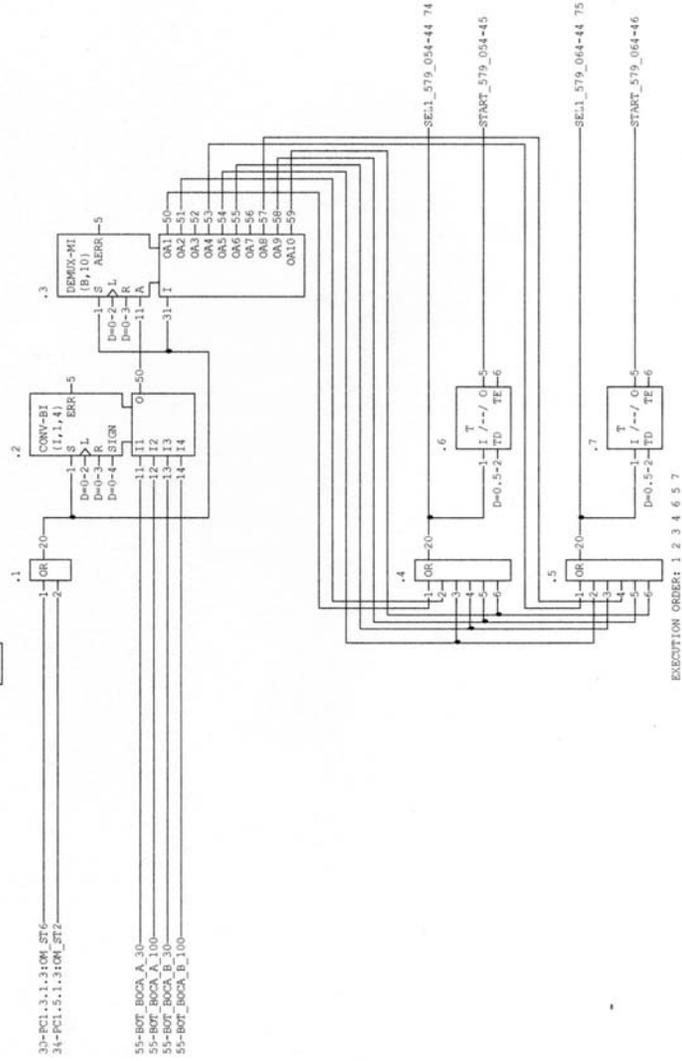
ABB Automation and Drives

21-JAN-2006/09459

COMMON IDENTITY: PCI.7

PCI.7.8/APERTURA_COMBIERTAS_MOTORIZADAS_054_064_074_084

FINISH



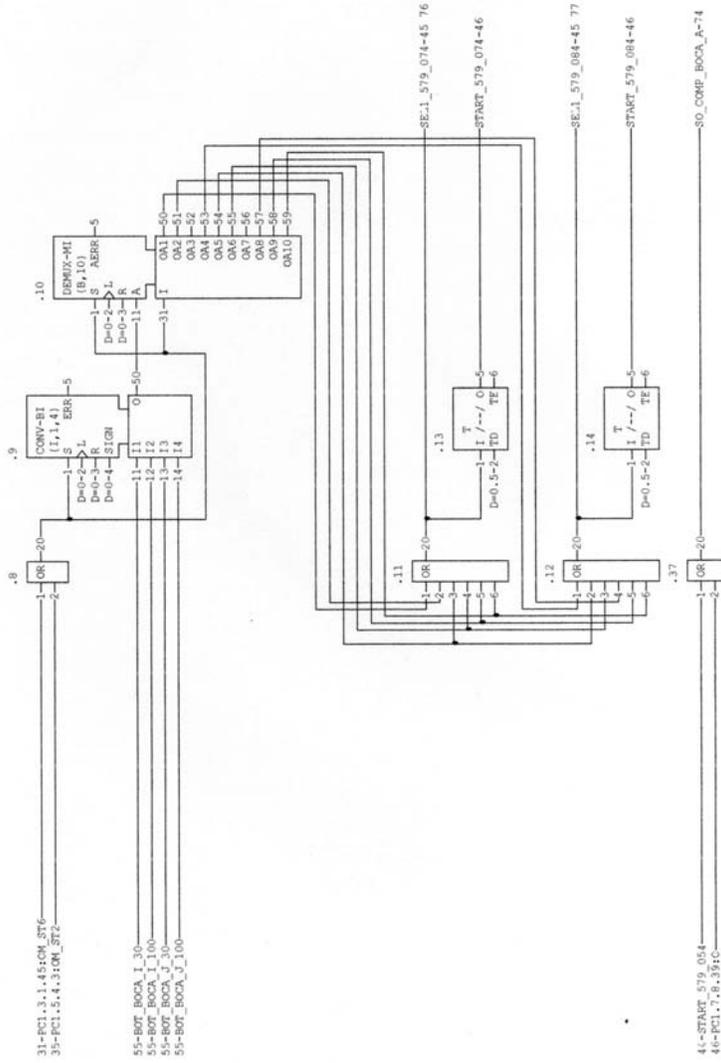
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Date		Cont.	45

PC DIAGRAM PCI

ABB Automation and Drives

COMMON IDENTITY: PCI.7.8

21-JAN-2006/09159



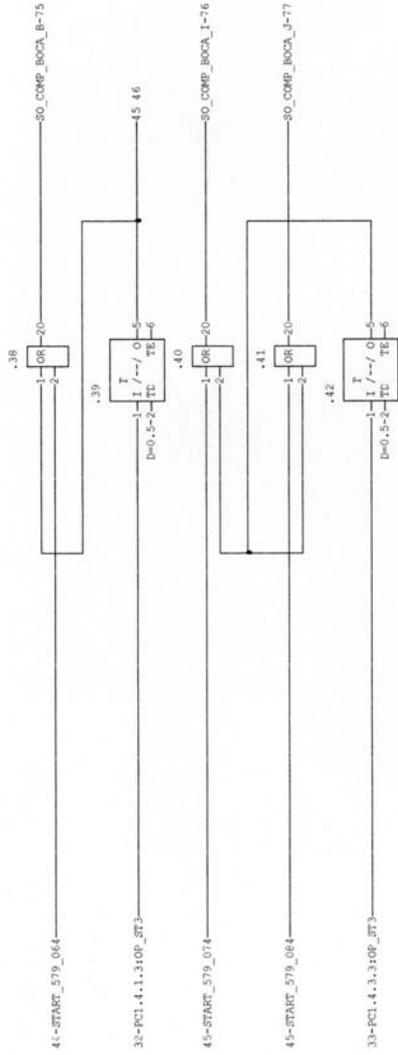
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PCI DIAGRAM PCI	Rev. ind.
Tech. ref.	Sheet 45
Resp. dept.	Cont. 46
Date	

ABB Automation and Drives

21-JAN-2006/09159

COMMON IDENTITY: PCI.7.8



EXECUTION ORDER: 38 39 40 41 42
 PCI.7.8/APERTURA_COMPUERTAS_MOTORIZADAS_054_064_074_084

Design ch.	PCI DIAGRAM PCI	Lang.	
Tech. ref.		Rev. Ind.	
Resp. dept.		Sheet	46
Date		Cont.	47

[Anexo 10] Pantallas de operación

En las siguientes páginas se muestran las pantallas de operación diseñadas para la puesta en marcha del sistema de control.

[Anexo 10.1] Descarga a granel Silo1

LUCE CONECTADO Norma 2 Crudo 2 Comando 2

SF 322-451-CM CONFIRMACION MARCHA Sig.Etr 14:55:58 2005-12-15 10:29

ENSACADA_P1 Descarga a granel del silo 1

GRANEL SILO 1 MANGA 1

Disponible Marcha Defecto
 SELECCION DE BOCA
 BOCA A, 30%
 BOCA A, 100%
 BOCA B, 30%
 BOCA B, 100%

GRANEL SILO 1 MANGA 2

Disponible Marcha Defecto
 SELECCION DE BOCA
 BOCA I, 30%
 BOCA I, 100%
 BOCA J, 30%
 BOCA J, 100%

SELECCION DE SOPLADOR

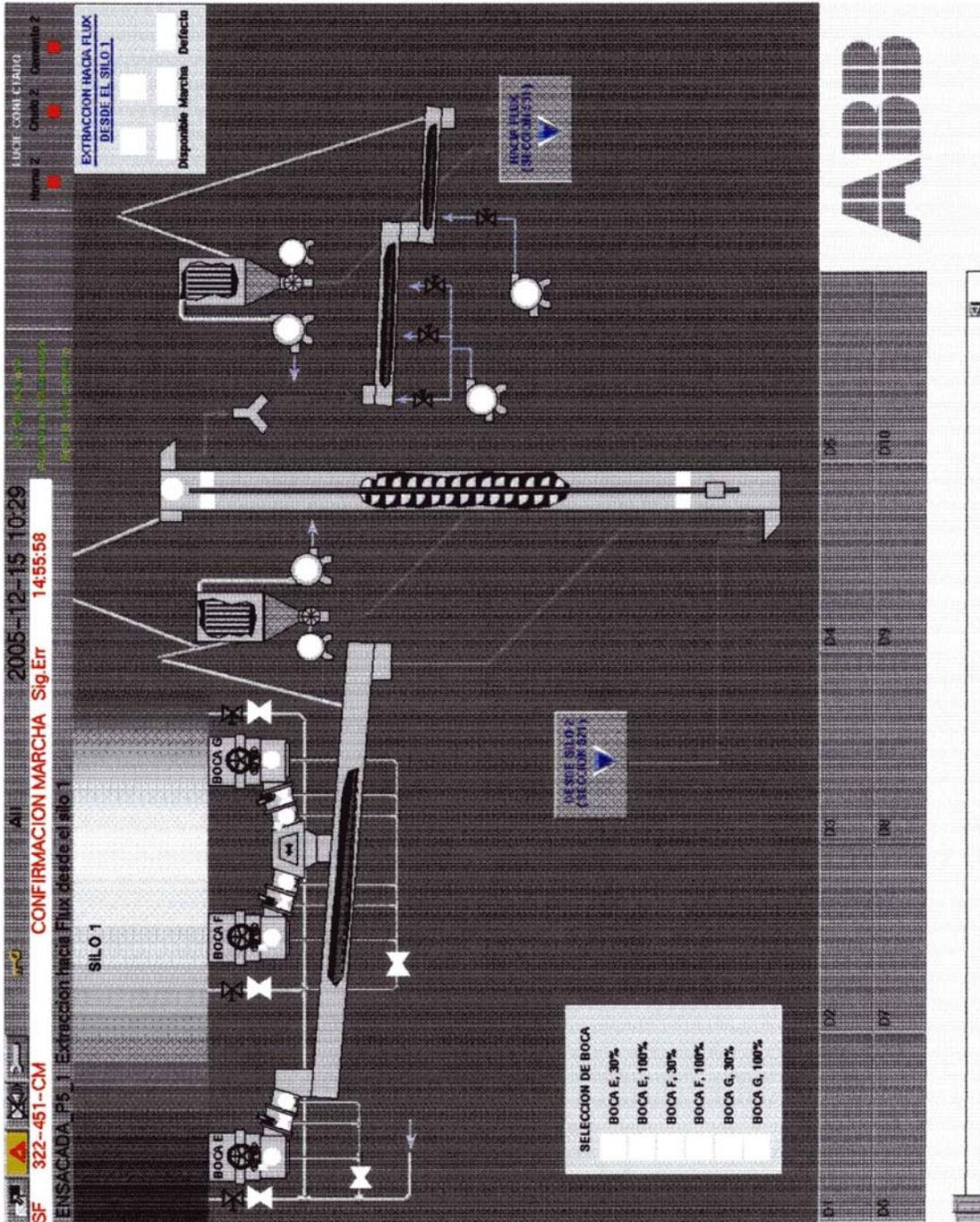
523-700
 579-700
 579-710
 RESET DE ROTURAS

SILO 1

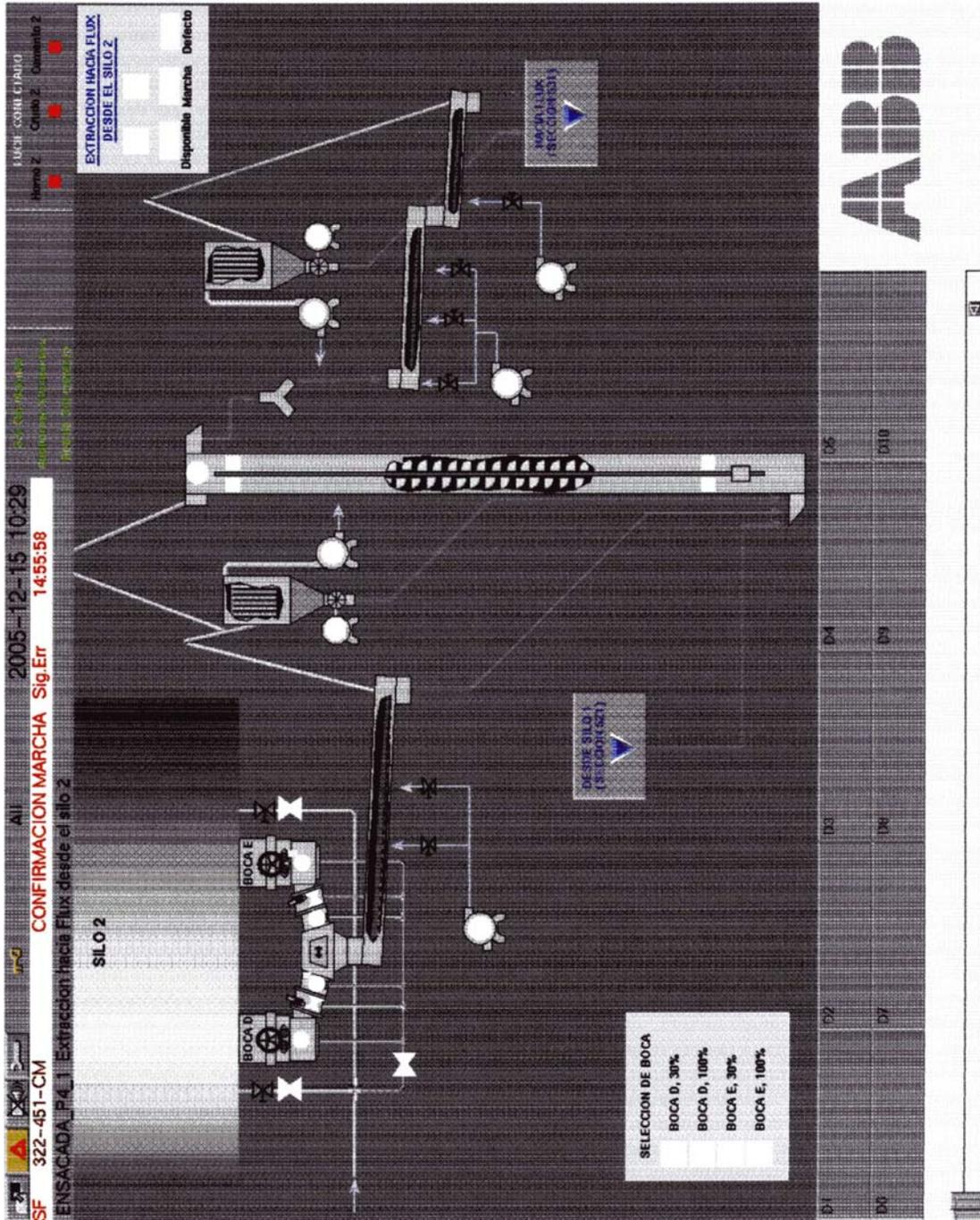
ABB

D2	D3	D4	D5
D7	D8	D9	D10

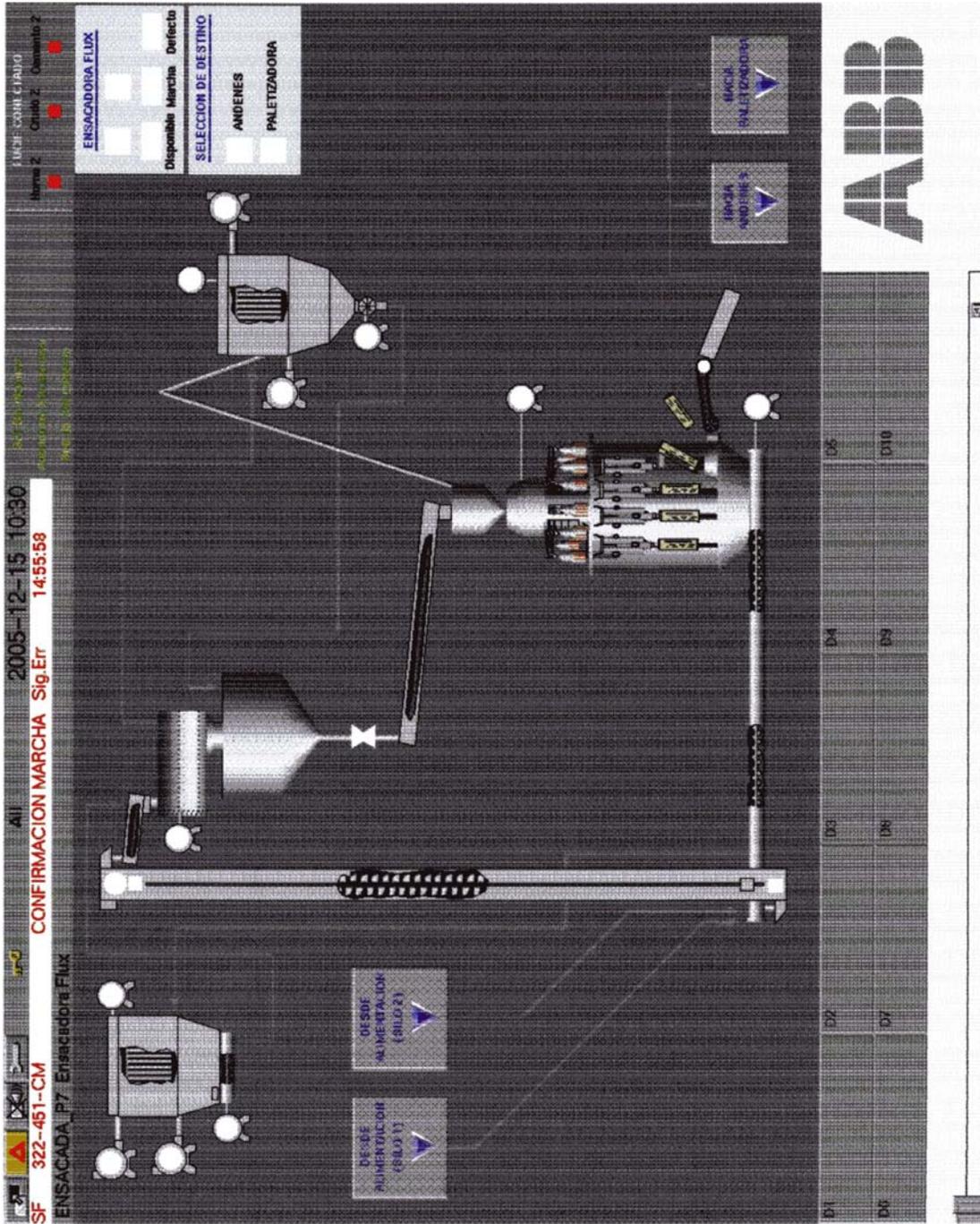
[Anexo 10.2] Descarga a ensacadora 1 del Silo 1



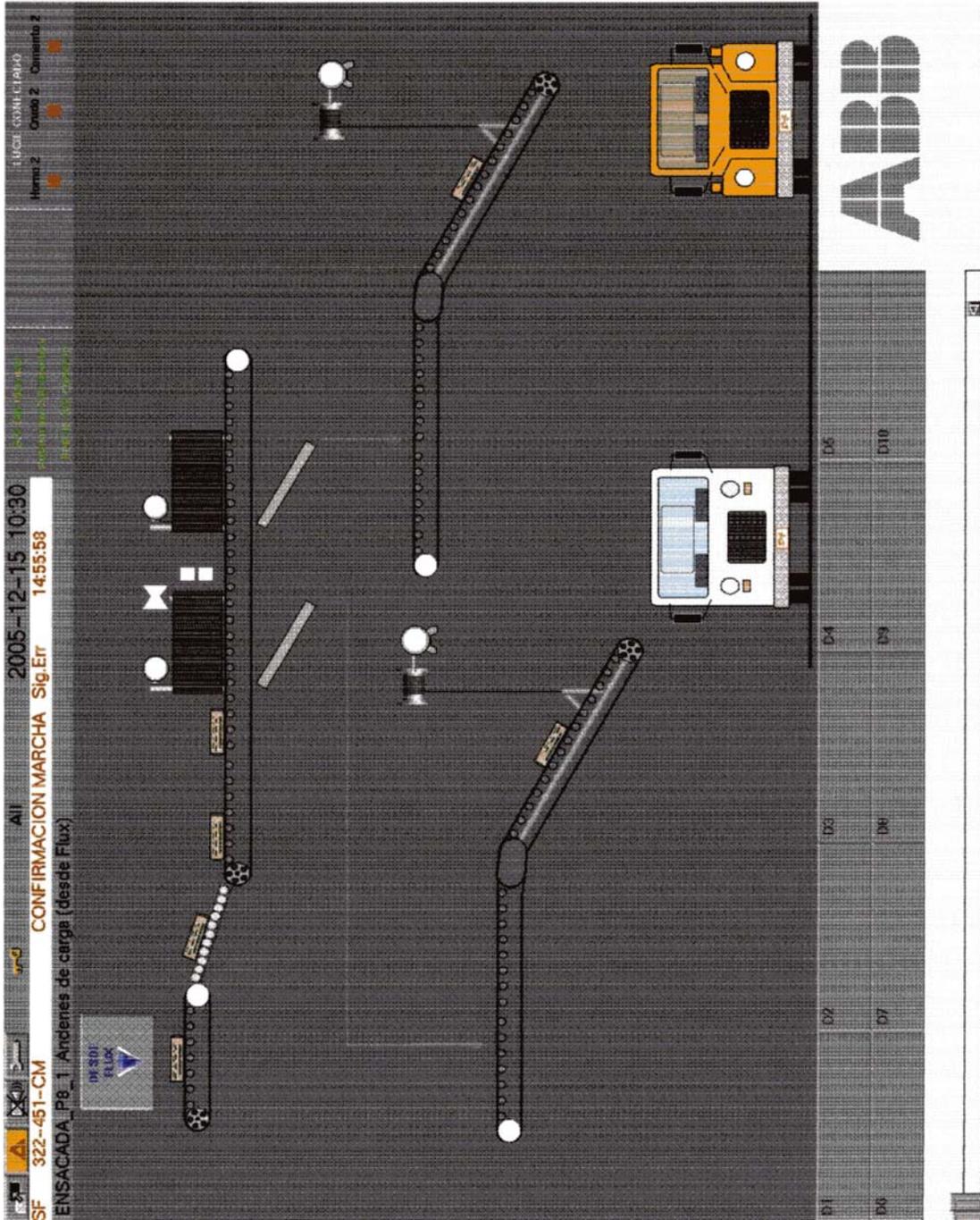
[Anexo 10.3] Descarga a ensacadora 1 del Silo 2



[Anexo 10.4] Ensacadora 1



[Anexo 10.5] Andenes de carga



[Anexo 10.6] Paletizadora 2

