Bulk Melters
VersaDrum® VD200
with Piston Pump

Parts List P/N 7146280_24
- English -

Issued 03/25

NORDSON ENGINEERING GMBH • LÜNEBURG • GERMANY

Order number
P/N = Order number for Nordson products

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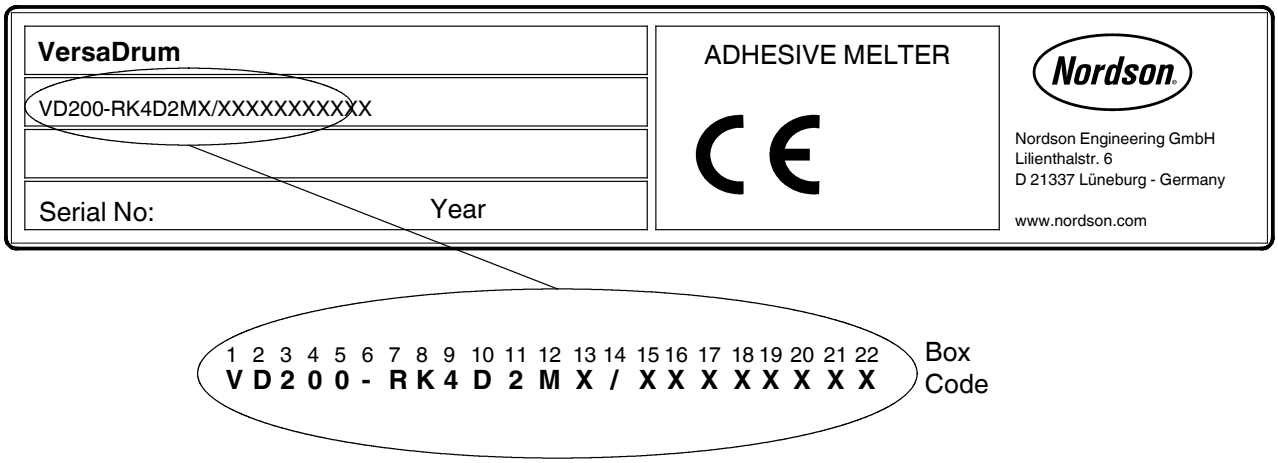
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Product Configuration

The configuration code and the table indicate the components and parts of this product that are configurable. The codes are also used to identify the spare parts.



Configuration Code

Box	Code	Components / Pars	
	VD200	VersaDrum	

Box	Code	Separator	
6	-	Standard configurable Unit	

Box	Code	Platen Surface	
7	R	Axial, with standard platen seal	
	U	Smooth, with standard platen seal	
	P	Finned	

Box	Code	Container Diameter	
8	J	567 mm (Japan)	See Note
	D	571 mm (Standard Drum)	

Box	Code	Voltage	
9	2	200V 3 Phase Delta	
	3	240V 3 Phase Delta	
	4	3 x400V 3 Phase WYE	
	5	400V 3 Phase Delta	
	6	480V 3 Phase Delta	
	7	575V 3 Phase Delta	See Note

NOTE: Configuration code is no longer available. For spare part identification of bulk melters sold before June 2024 only. Spare parts of this code are still available.

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Configuration Code *(Forts.)*

Box	Code	Pump	
10	B	Piston Pump - Low Pressure Configuration	
	A	Piston Pump - High Pressure Configuration	

Box	Code	Hose/Gun Pairs	
11	2	2 Hose/Gun Pairs (@ platen)	
	4	4 Hose/Gun Pairs	
	6	6 Hose/Gun Pairs	
	8	8 Hose/Gun Pairs	

Box	Code	Maximum Operating Temperature	
12	L	150 °C / 300 °F	
	M	180 °C / 350 °F	
	H	230 °C / 450 °F	

Box	Code	Temperature Sensor	
13	N	Ni-120 Temperature sensor	
	P	PT-100 Temperature sensor	

Box	Code	Separator for options	
14	/		

Box	Code	Hose Fitting	
15	X	16 mm (5/8 in) or 13 mm (Pt100) and 8 mm (5/16 in) fittings	
	K	22 mm (7/8 in)	See Note
	M	28 mm (1 1/8 in)	

Box	Code	Pail / Drum Clamp / Fiber Drum Jacket	
16	P	Pail / Drum Clamp	
	X	None	

Box	Code	Aeration	
17	A	Automatic aeration	
	X	Manual aeration	

Box	Code	Flow Control	
18	P	Automatic Pneum. Pressure Control	
	M	Manual Pneum. Pressure Control	
	F	Flow Control Bypass	
	C	Output Pressure Control (A in Box 19)	
	X	Standard manual Pressure Control Valve	

Box	Code	Internal Pressure Indication	
19	A	Int. Pressure Indication (IPI)	
	X	None	

NOTE: Configuration code is no longer available. For spare part identification of bulk melters sold before June 2024 only. Spare parts of this code are still available.

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Configuration Code *(Forts.)*

Box	Code	Light Tower	
20	W	Light Tower	
	X	None	

Box	Code	Main Switch	
21	1	Main Switch Red - 4 Pole	
	2	Main Switch Black - 3 Pole	
	3	Main Switch Black - 4 Pole	
	x	Standard Main Switch Red - 3 Pole	

Box	Code	Host Communications	
22	D	Profibus-DP	
	E	EtherNet/IP	
	N	ControlNet	See Note
	P	Profinet I/O	
	X	None	

Box	Code	Casters / Drip Shield	
23	C	Casters	
	X	None	

Box	Code	Exhaust Hood	
24	E	Exhaust Hood	
	X	None	

Box		Additional Pre-melting Features	
	X	None	

Box	Code	Pallet Load Frame	
26	X	None	

Box	Code	Two Pumps / Key-to-Line	
27	X	None	

Box	Code	External Pressure Indicator	
28	#	External Pressure Indicator	
	X	None	

Box	Code	Application Typ	
29	P	PUR	
	X	Standard	

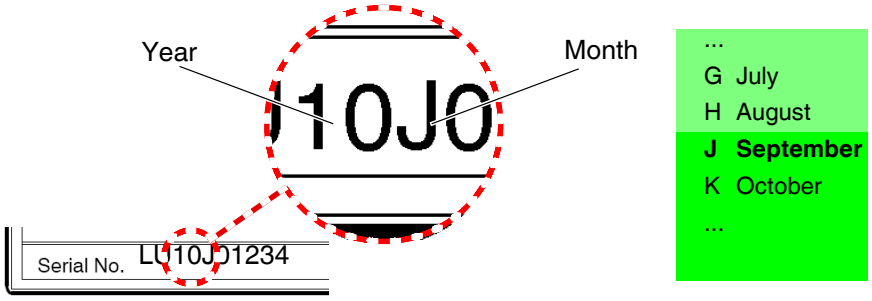
Box	Code	One-Way Clutch	
30		Not configurable with piston pump	

NOTE: Configuration code is no longer available. For spare part identification of bulk melters sold before June 2024 only. Spare parts of this code are still available.

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Year of production

The year and month of production are indicated in the serial number on the ID plate:



How to Use Illustrated Parts List

The parts lists in this section are divided into the following columns:

Item— Identifies illustrated parts that can be obtained from Nordson.

Part— Nordson part number for each spare part shown in the illustration. A row of hyphens in the column Part (- - - - -) indicates that this part can not be ordered separately.

Description— This column contains the name of the part and, when appropriate, its dimensions and other properties. The points in the column *Description* show the relationship between assemblies, subassemblies and single parts.

Quantity— The quantity needed per unit, assembly or subassembly. The abbreviation AR (as required) is used when this item is a bulk item or when the quantity per assembly depends on the product version or model.

Fasteners

Fasteners are shown as *Fx* in every illustration, whereby ”x” indicates the number of the fastener in the list *Schedule of Fasteners* at the end of this document.

Component Designation

The electrical components are labeled in accordance with DIN 40719, part 2.

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VersaDrum (Piston Pump)

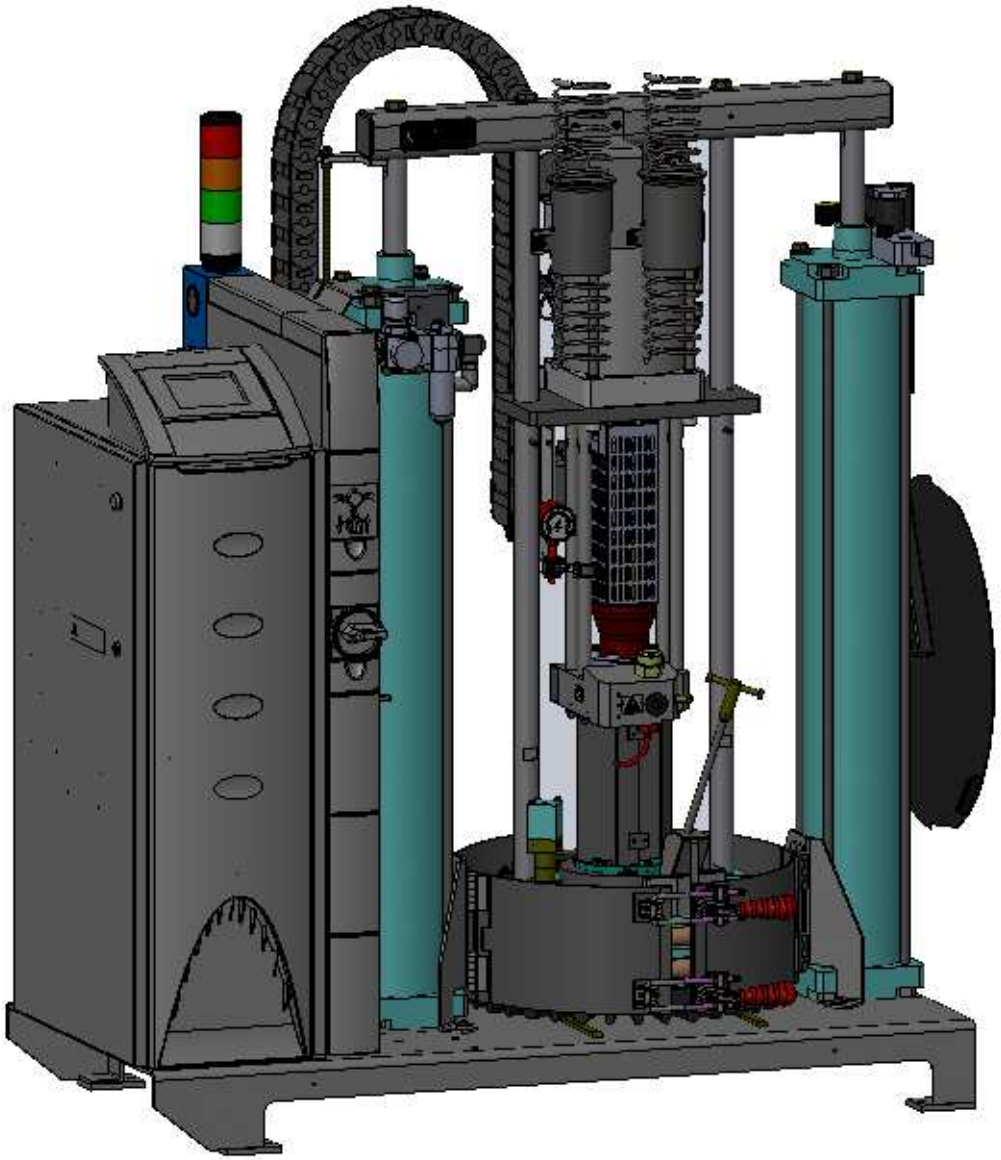


Fig. 1

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Assembly Overview

NOTE: Electrical component designation see *Electrical Components* beginning on page 48.

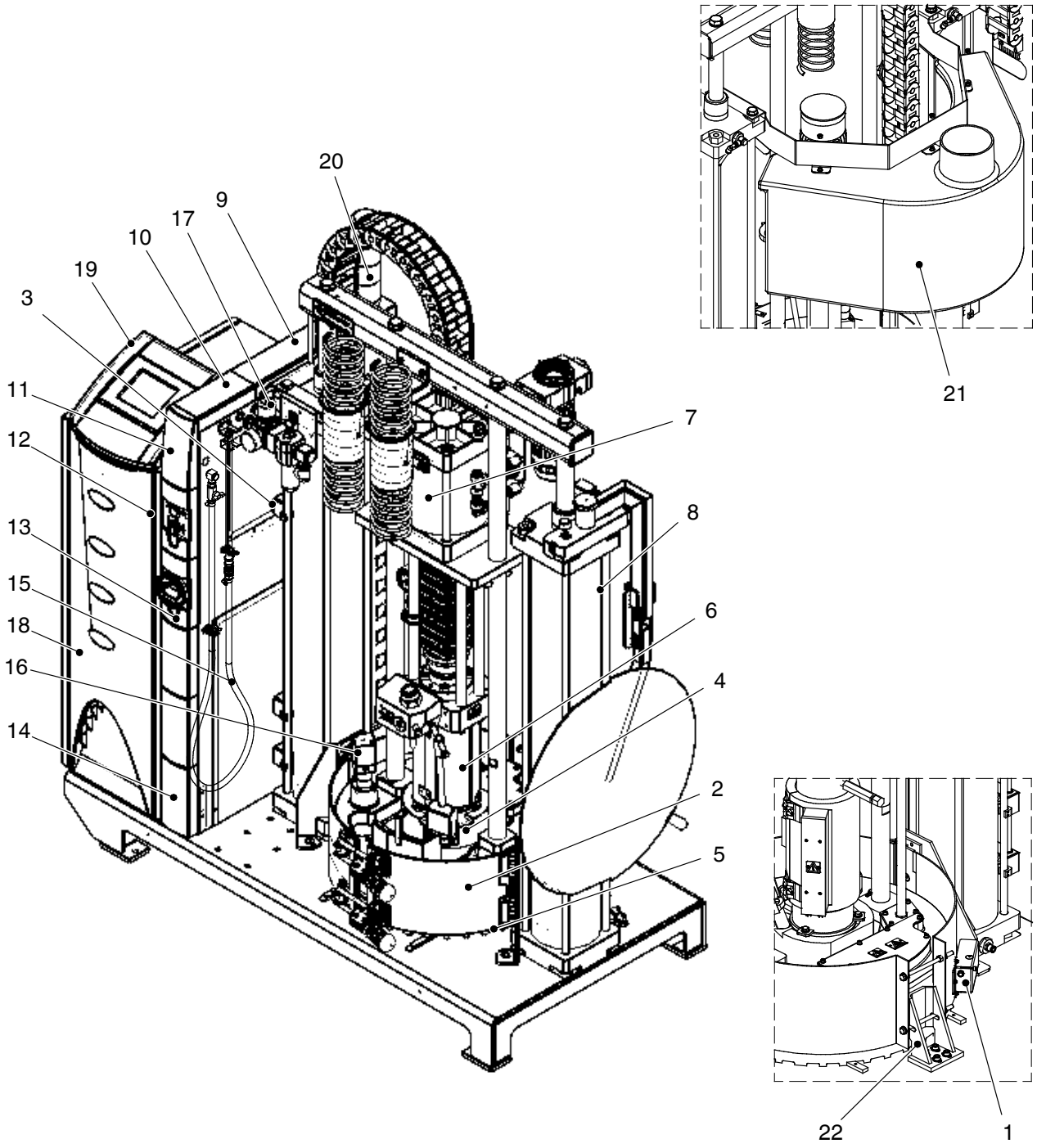


Fig. 2

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Item	Part	Description	Note	Quantity	Box	Code
-	------	Retractable Drip Shield	page 34	1	23	D
1	------	Device, container detection	page 10	1		
2	------	Drum clamp	page 11	1	16	P,F
3	------	Device VD200 platen position inquiry	page 13	1		
4	------	Platen assembly	page 14	1		
5	------	• Melting plate	page 18	-		
6	------	• Heat protection cover, heater	page 25	-		
7	464670 --------	• Piston pump w/ air motor • Piston pump w/ air motor	page 26 page 30	1		
8	7096333	Pneumatic cylinder D160-1090	A	2		
	7116951					
	7085497					
9	207088	Cover VB/DB tower, top		1		
10	394758	Cover VB/DB 50 tower, top		1		
11	207553	Cover VB/DB tower, front top		1		
12	394963	Cover DuraPail tower, front switch		1		
13	207083 7104841	Cover VB/DB tower, front switch Cover VB tower, front switch P3		1 1	9 21	4 1,3
14	207082	Cover VB/DB tower, front bottom		3		
15	------	Aeration (manual)	page 20	-	17	X
16	------	Aeration (automatic)	page 19	-	17	A
17	------	Pneumatic Components	page 38	-		
18	------	Electrical Components	page 48	-		
	203208	Filter mat back top (el. cabinet)	NS	1		
	203204	Filter mat front top (el. cabinet)	NS	1		
	203207	Filter mat front bottom (el. cabinet)	NS	1		
19	207086	Console VB/DB IPC		1		
	394829	Sealing cord D2,5	NS	AR		
19	7561707	Console IPC Gen.4, versa blue series (since 01/20)		1		
20	------	Light tower	page 65	1	20	W
21	------	Exhaust Hood	page 69	1	24 26	E X
22	7131829	Drum stop VD/DD		1	26	X

NOTE A: Service Kit is available. Refer to page 36.
NS: Not Shown

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Assembly Overview - Pallet Load Frame

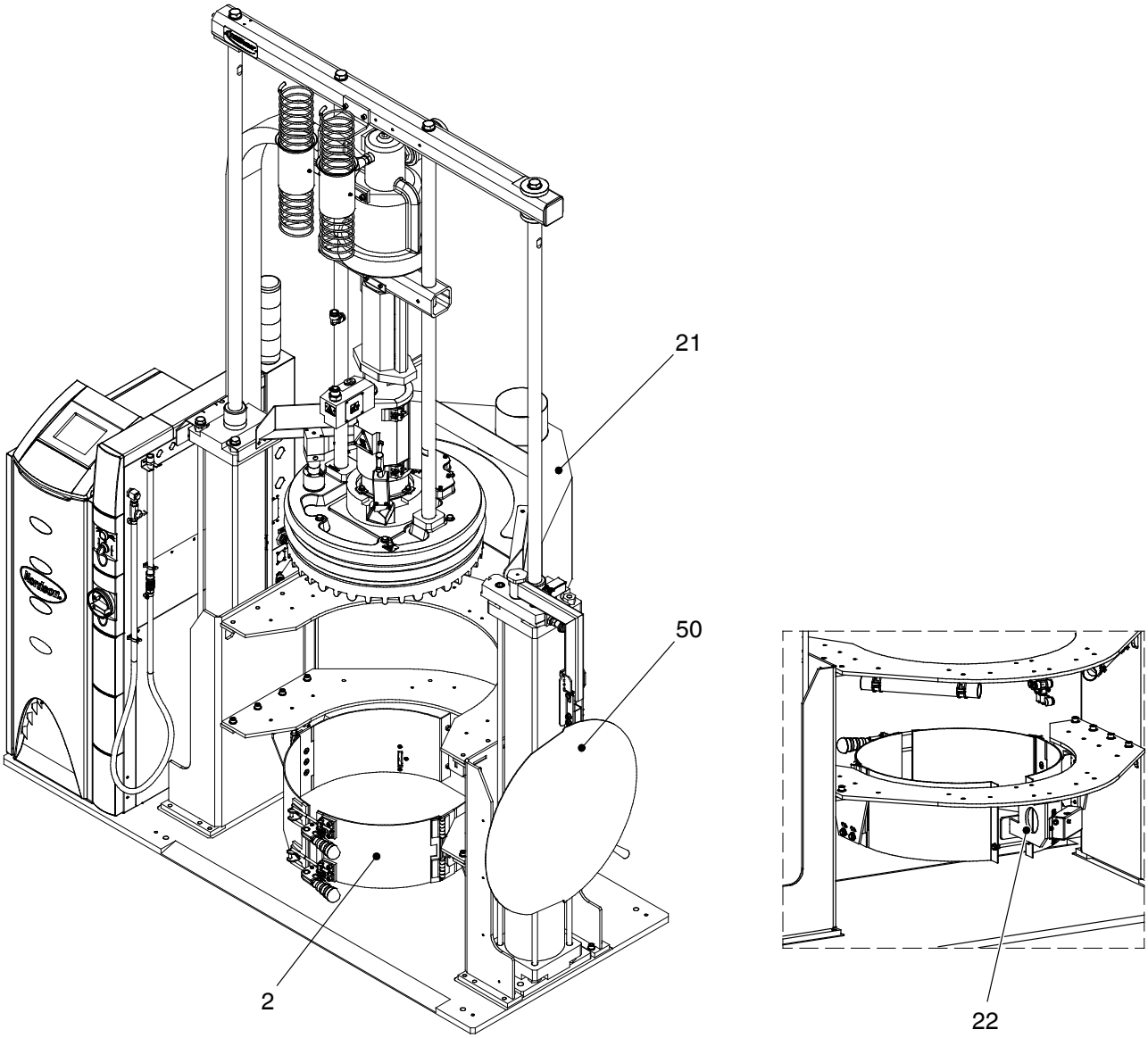


Fig. 3

Item	Part	Description	Note	Quantity	Box	Code
50	------	Retractable Drip Shield	page 34	1	23 26	D W
2	------	Drum clamp	page 11	1	16	P,F
21	------	Exhaust Hood - Pallet Load Frame	page 70	1	24 26	E W
22	7140866	Drum stop		1	26	W

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Ship With Kit

Item	Part	Description	Quantity	Note	Box	Code
-	422464	Hexagon socket screw key SW4 DIN911 AMF	1			
-	7157345 7575965	catch pan VP/VD PP VX L131 catch pan VD VX, PP	2 2	A, a b		
-	7126909	Hose connect.ftg.a9/16UNF-a1 1/16UNF	AR		15	X
-	7126911	Hose connect.ftg.a1 1/16UNF-a1 1/16UNF	AR			
-	7140077	Hose connect.ftg.a1 5/16UNF-a1 1/16UNF	AR			K
-	7126911	Hose connect.ftg.a1 1/16UNF-a1 1/16UNF	AR			X
-	900214	OIL,VITALIZER,1 PINT (piston pump seal cup)	0.5 liter			
-	253145	Two-way key no.5 (control cabinet)	1			

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel (see page 32, *Hose Manifold & Fittings*). This causes the following changes:

a: Replaces 7136730, Catch pan VD VX

b: Replaces 7157345, Catch pan VD VX

AR: As Required

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Spare Parts and Service Kits

Device, Container Detection

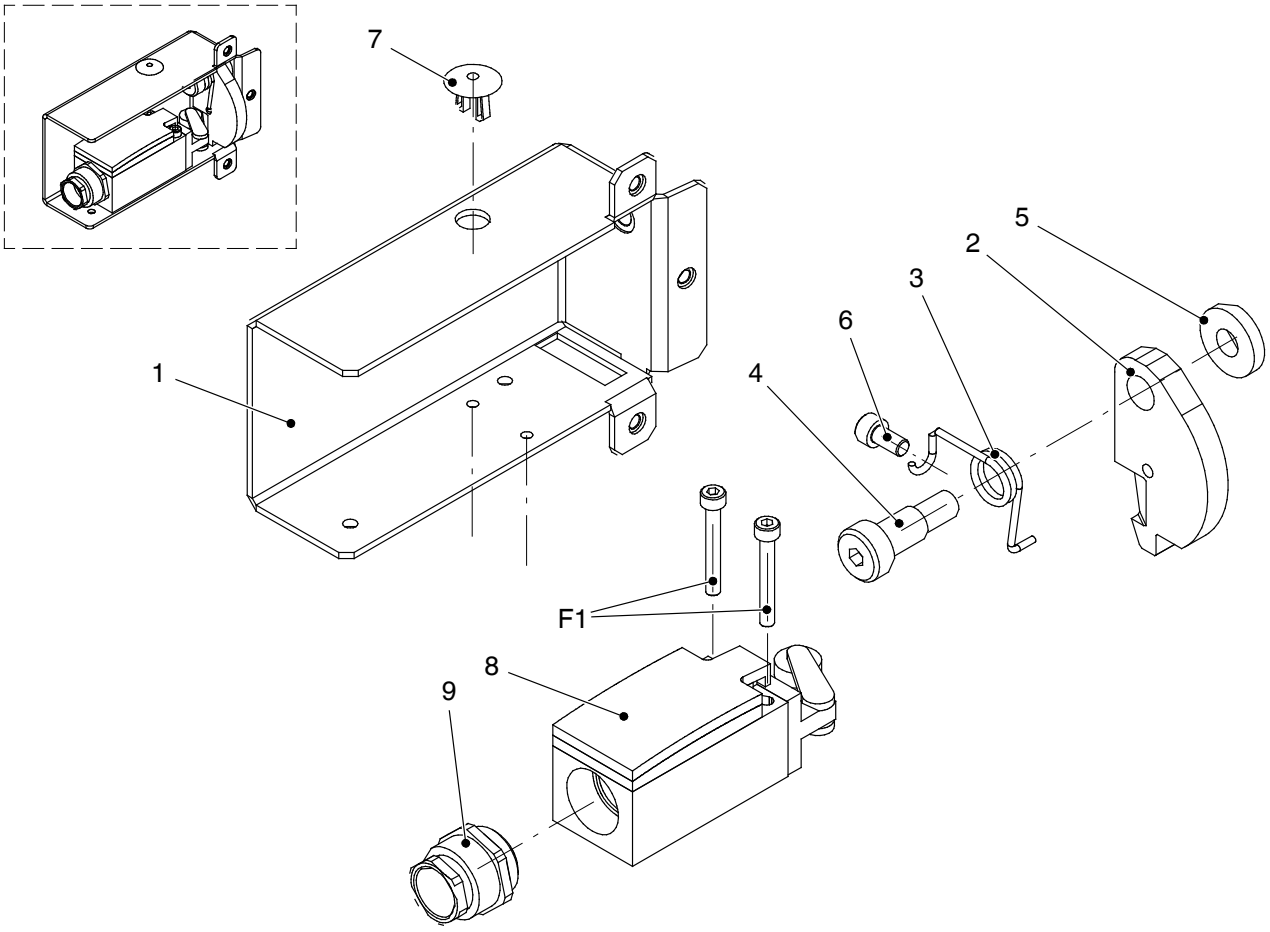


Fig. 4

Item	Part	Description	Quantity	Note	Box	Code
-	7140277	Device container detection VP/VD compl.	1			
1	------	• Base plate,device container detect.VP/VD	1			
2	------	• Plate, intiator VX device cont.detection	1			
3	------	• Leg spring d2xDi11 n=2,25 VP/VD	1			
4	------	• Tight-fit screw ISO7379 M8x16 D10/12.9	1			
5	------	• Washer M8 DIN6340	1			
6	------	• Allan head cap screw M5x10 DIN912 SST	1			
7	------	• Cover black D9,5-11	1			
8	7140289	Position switch, roller lever IP66	1			
9	------	Cable gland polyamid M20x1,5	1			

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Drum Clamp, H220

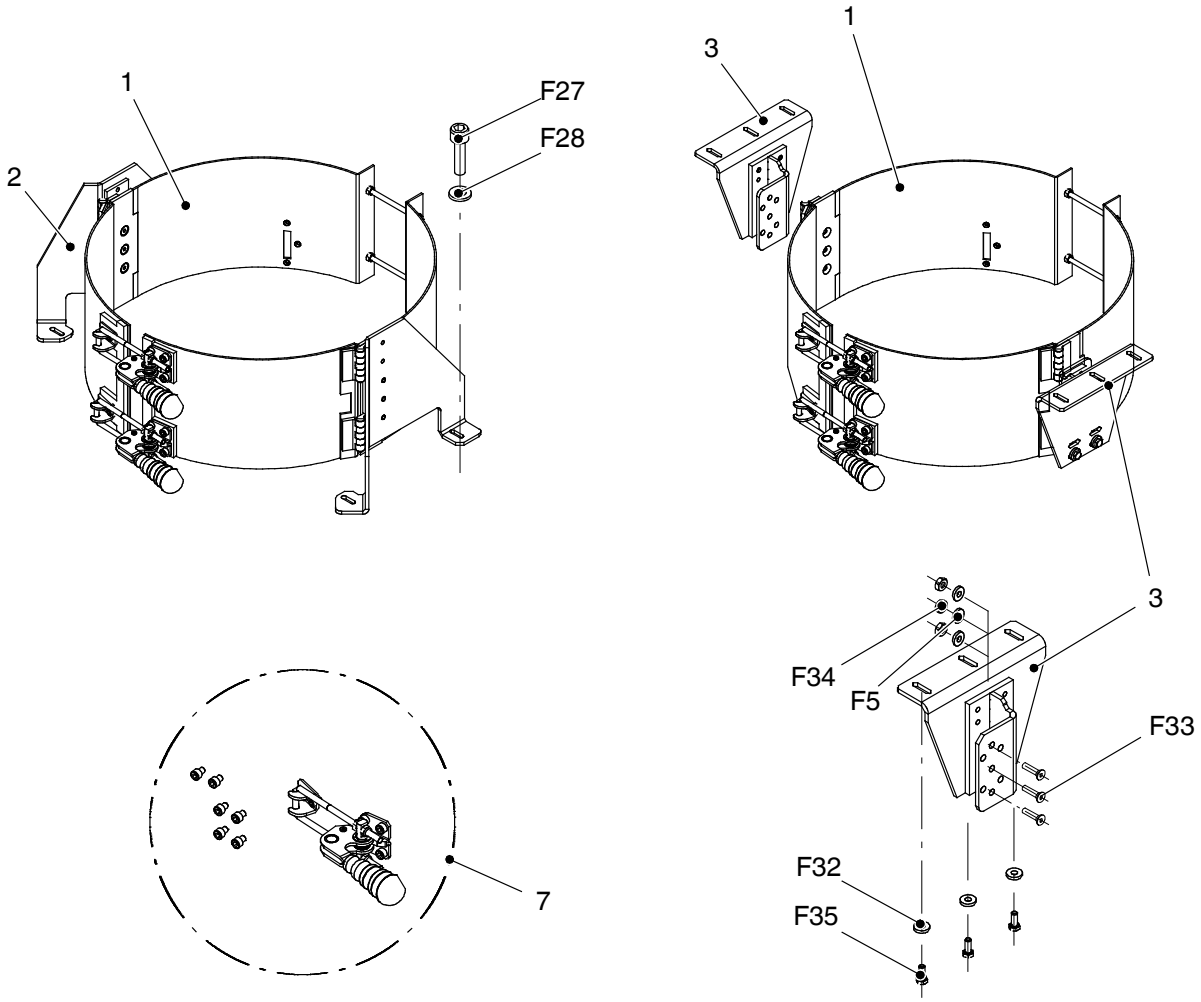


Fig. 5

Item	Part	Description	Quantity	Note	Box	Code
-	7140407	Drum clamp VD/DD D567/571 H220	1			
1	7140831	• Clamp	1		16	P
2	7140903	• Brackets	1		26	X
-	------	Drum clamp VD/DD D567/571 H220	1			
1	7140831	• Clamp	1		16	P
3	7140834	• Bracket	2		26	W
7	7140581	**SERVICE KIT Drum clamp latch**	1		16	P,F

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Drum Clamp, H795

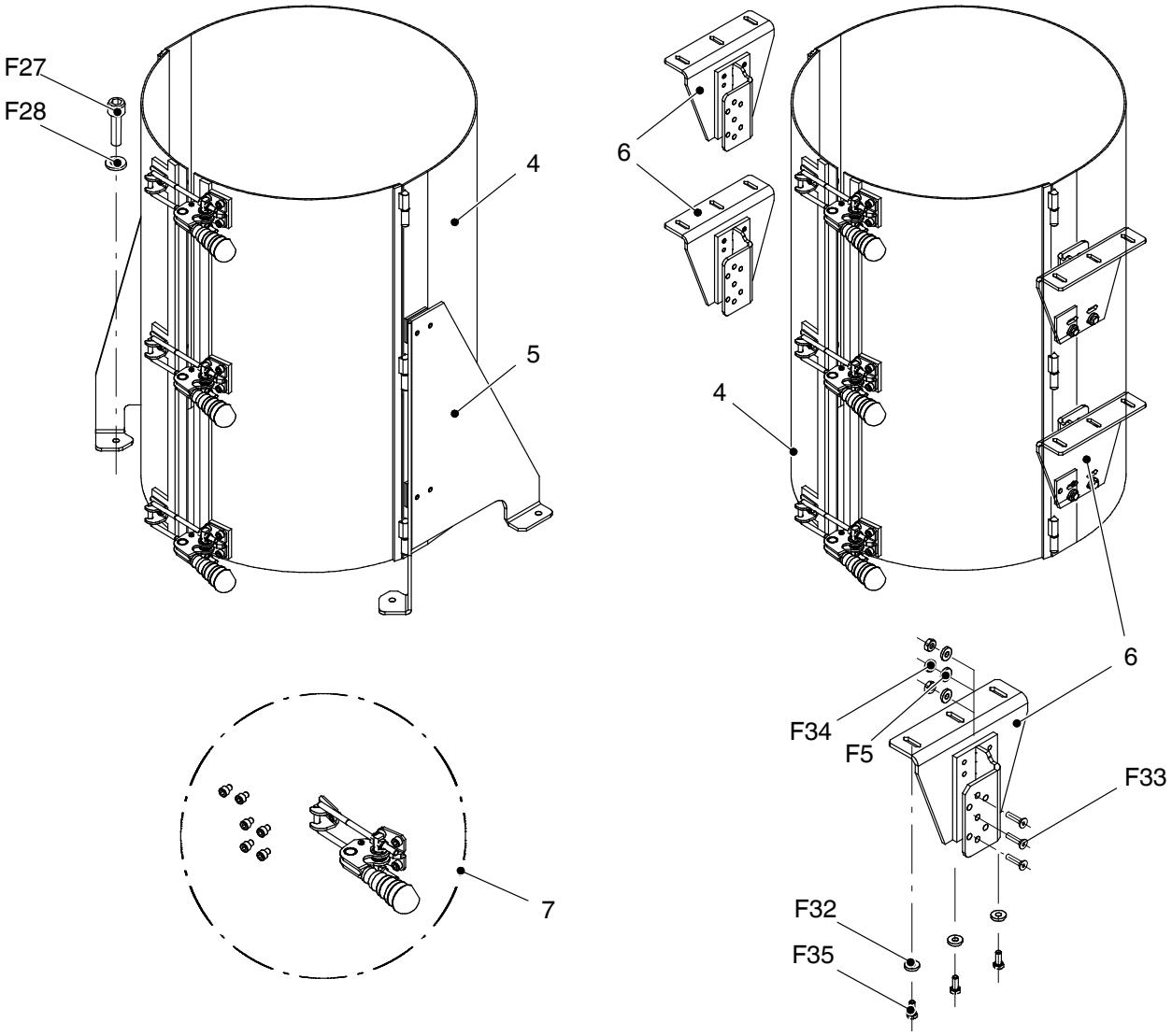


Fig. 6

Item	Part	Description	Quantity	Note	Box	Code
-	7140406	Drum clamp VD/DD D567/571 H795	1			
4	7140830	• Clamp	1		16	F
5	7140902	• Brackets	1		26	X
-	------	Drum clamp VD/DD D567/571 H795	1			
4	7140830	• Clamp	1		16	F
6	7140834	• Bracket	4		26	W
7	7140581	**SERVICE KIT Drum clamp latch**	1		16	P,F

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Device, Platen Position Inquiry

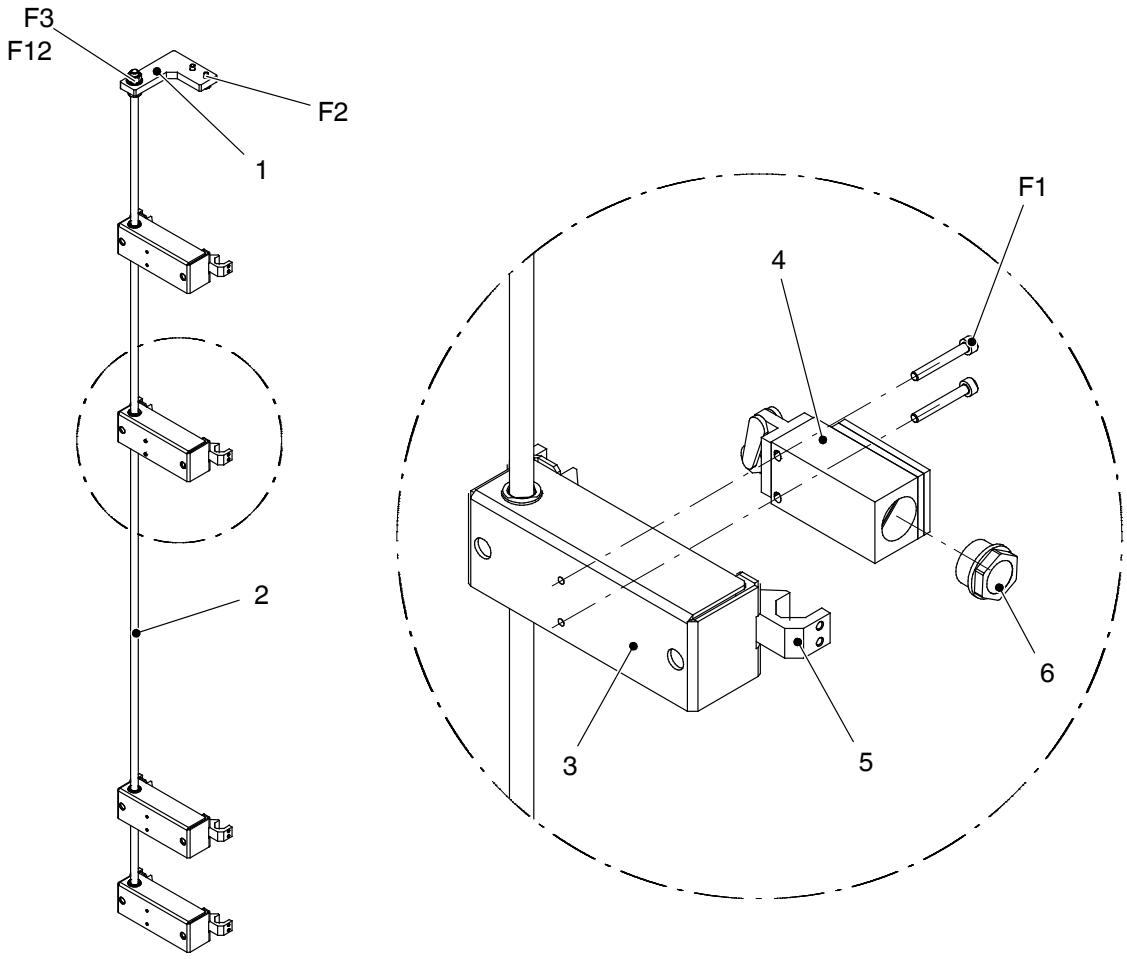


Fig. 7

Item	Part	Description	Quantity	Note	Box	Code
-	------	Device platen position inquiry, VD	1			
1	7140280	• Mounting plate VD200 100x10x 80	1			
2	7126851	• Contact maker bar VD200 L1350 M10	1			
3	7126205	• Mounting plate VP/VD position switch	4			
4	------ 7140289 7140289 7140289	• Cable, level switch VD • • Position switch, roller lever IP66	1 1 1 1	 Empty Low Top edge		
5	7126195	• Mounting kit BT16	8			
6	7126297	• Cable gland, membrane M20x1,5	3			

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Platen Assembly

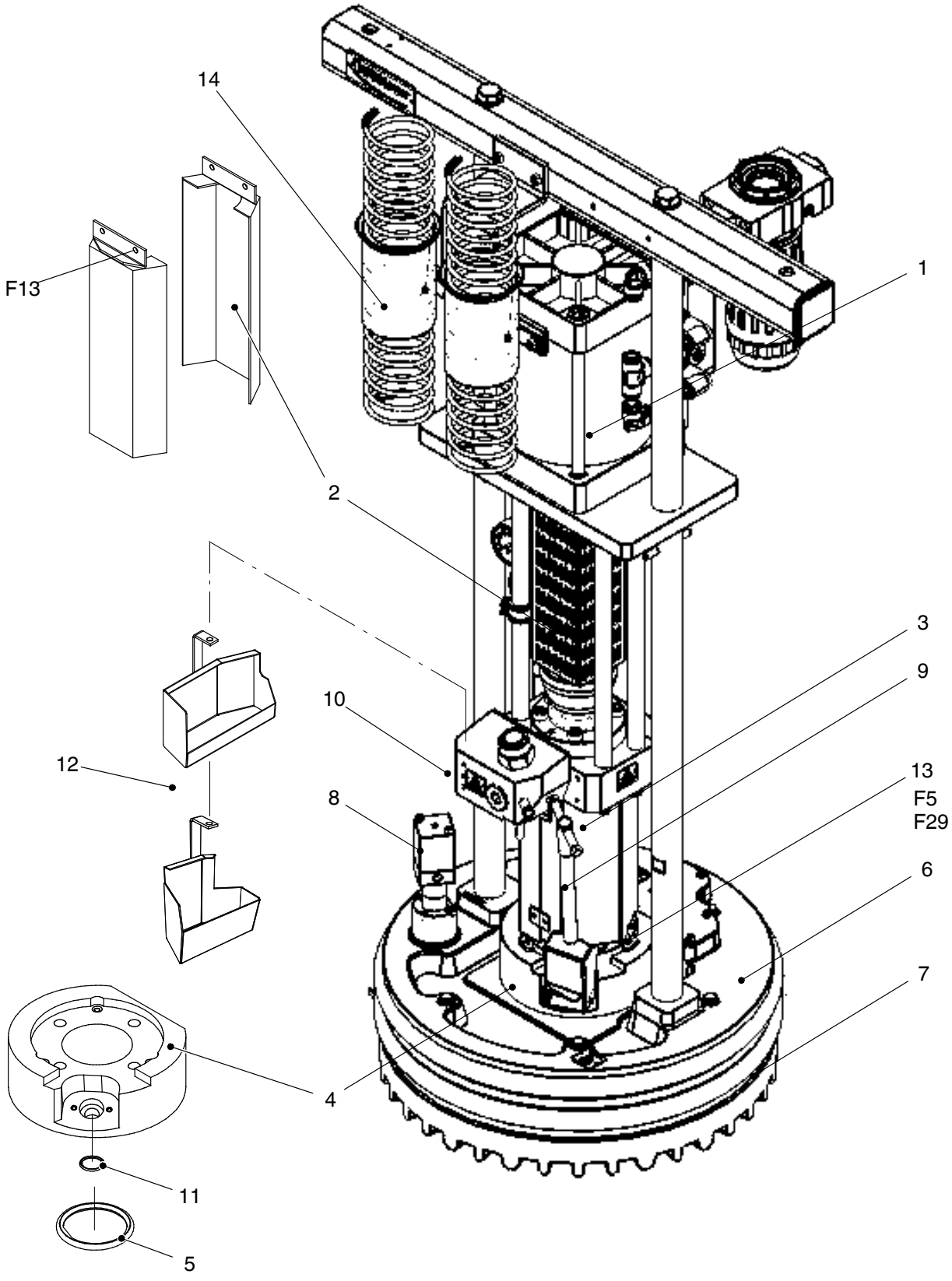


Fig. 8

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Item	Part	Description	Quantity	Note
1	------	Piston pump w/air motor	1	page 26
2	7116930	Protection cover	2	
3	------	Heat protection cover	1	page 25
	7140463	Thinband heater VP/VD PP	2	NS
	112374	SENSOR,TEMP.RTD,60IN. LEADS	1	NS
	7140383	Insulation sleeve, heater, piston pump	1	NS
4	7116932	Adapter plate VD heating punch/pistonp.	1	
5	267437	O-ring 100x3 Viton black	1	
6	------	Platen	1	page 16
7	------	Melting plate	1	page 18
8	------	Aeration valve, aeration (automatic)	1	page 19
9	------	Deaeration	1	page 22
10	------	Hose manifold	1	page 32
11	252246	O-ring 24x3 Viton	1	
12	7157345 7575965	catch pan VP/VD PP VX L131 catch pan VD VX, PP	-	A, a b
13	7116807	Clamping plate VPVD piston pump VX	3	
14	448009	Hose support Nordson complete single	2	

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel (see page 32, *Hose Manifold & Fittings*). This causes the following changes:

a: Replaces 7136730, Catch pan VD VX

b: Replaces 7157345, Catch pan VD VX

AR: As Required

NS: Not Shown

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Platen

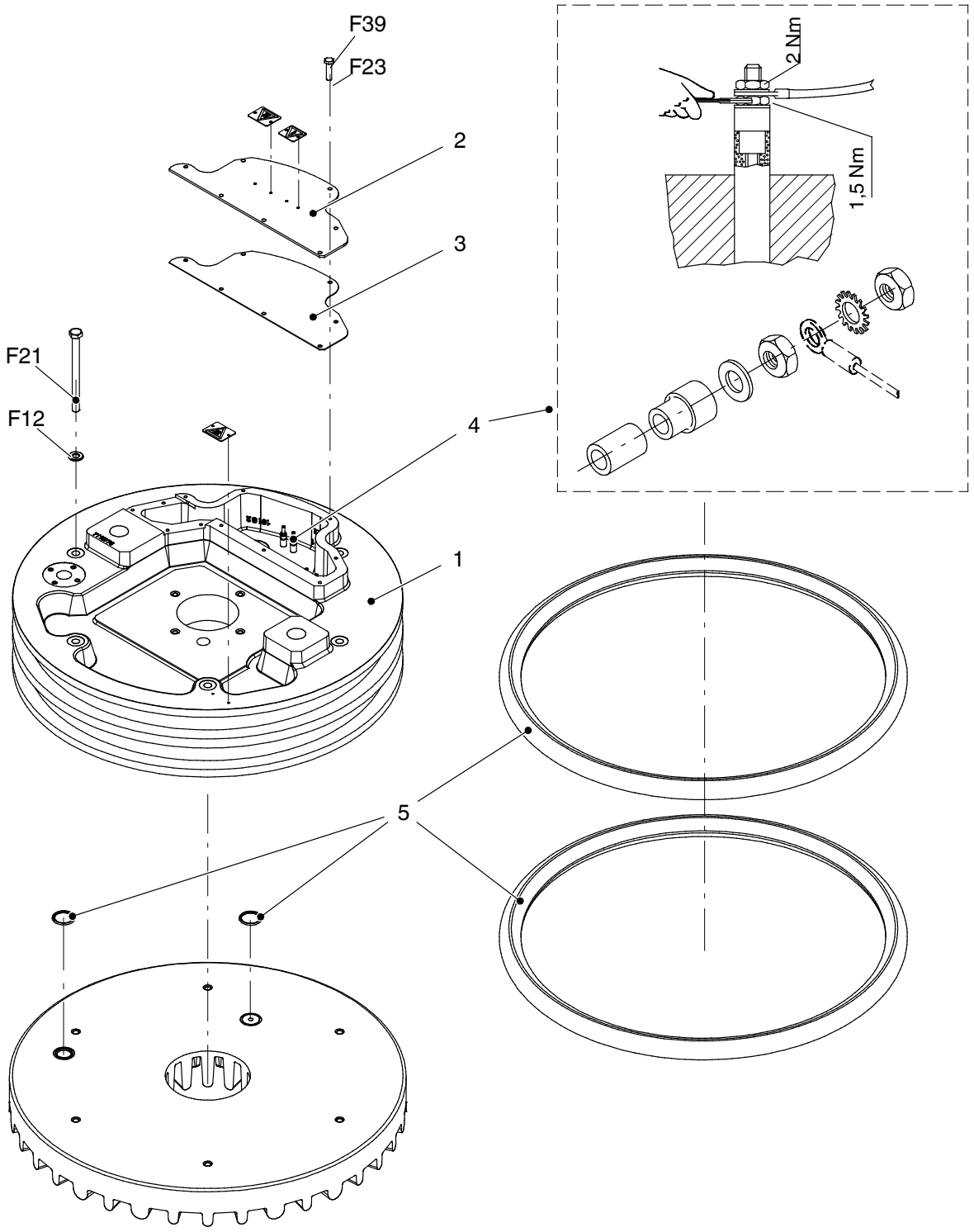


Fig. 9

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Item	Part	Description	Quantity	Note	Box	Code
1	7116776	Heating punch VD/DD, D571, KP, VX	1		8	D
	7126562	Heating punch VD/DD, D567, PP, VX	1		8	J
2	7116948	Electric cover, heating punch VD/DD	1			
3	7116949	Seal, electric cover, heating punch VD	1			
-	120167	RTD,TEMP SENSOR 1/4X1.25NICKEL	1	NS	13	N
-	7126360	THERMOSTAT 180° C,24V,1A,FASTON 90°	1	NS	12	L
	7126361	THERMOSTAT 210° C,24V,1A,FASTON 90°	1	NS		M
	7126362	THERMOSTAT 260° C,24V,1A,FASTON 90°	1	NS		H
4	7140582	**SERVICE KIT Terminal connection**	1			
	------	• Insulation cylinder M4-small	6			
	------	• Insulation cylinder M4-big	6			
	------	• Washer D4,3 DIN125 type A	6			
	------	• Hexagon nut M4 DIN439 B V2A	12			
	------	• Serrated lock washer D4,3 DIN6798 A	6			
5	7140586	**SERVICE KIT Platen Seal VD double**	1			
	------	• O-ring 26x2 Viton	2			
	------	• SEAL, T.E.S, BM/VD/DD	2		16	P
	394769	• High-temp.grease GLS 595/N2 can:10g	1			
	7140585	**SERVICE KIT Platen Seal VD single**	1			
	------	• O-ring 26x2 Viton	2			
	------	• SEAL, T.E.S, BM/VD/DD	1		16	F
	394769	• High-temp.grease GLS 595/N2 can:10g	1			

NS: Not Shown

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Melting Plate

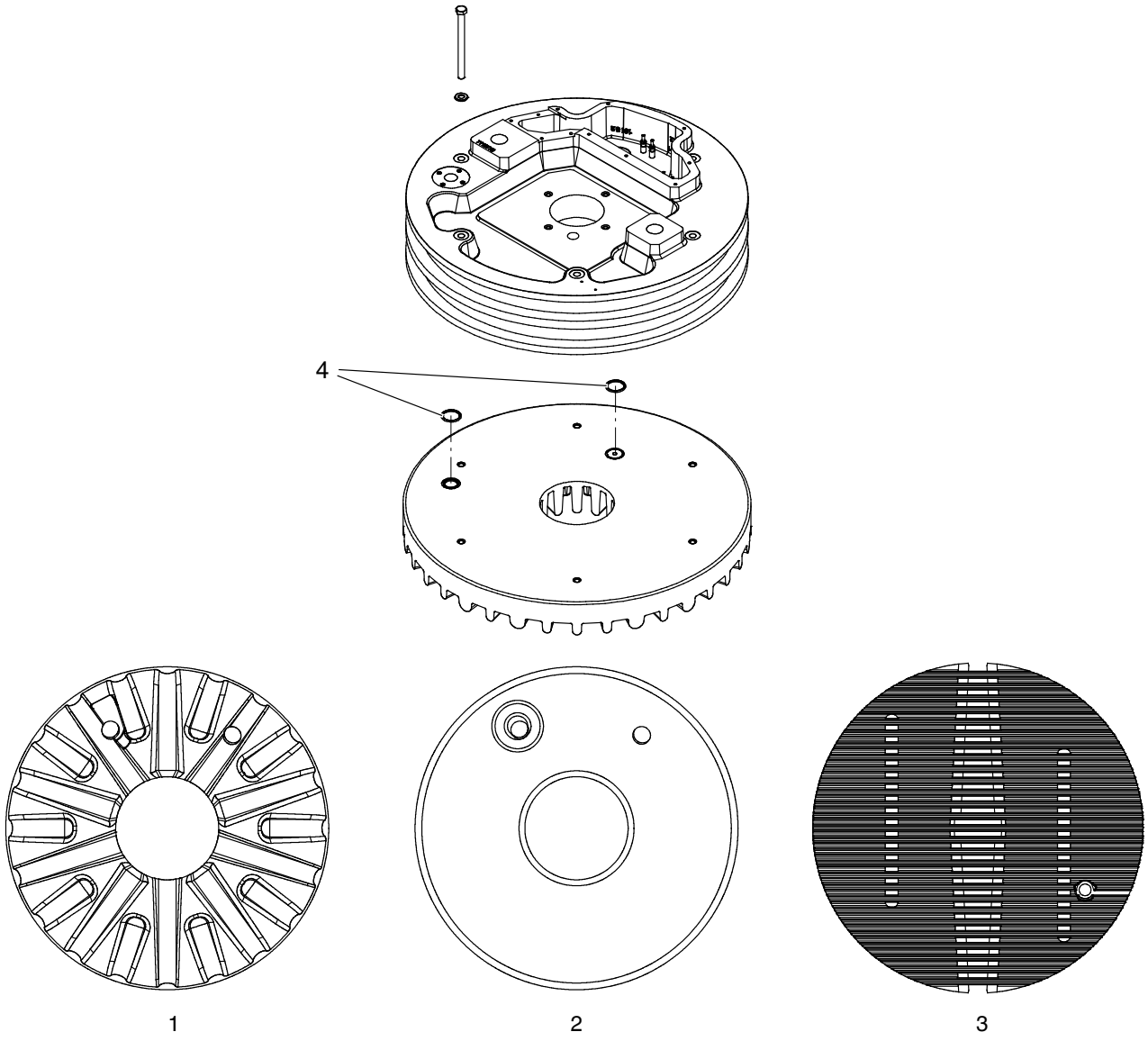


Fig. 10

Item	Part	Description	Quantity	Note	Box	Code
1	7116856	Melting plate, axial, VD, PP, VX	1		7	R
2	7116854	Melting plate, smooth, VD, PP, VX	1		7	U
3	7116857	Melting plate, finned, VD, GP/PP VX	1		7	P
4	256800	O-ring 26x2 Viton	2			

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Aeration (Automatic)

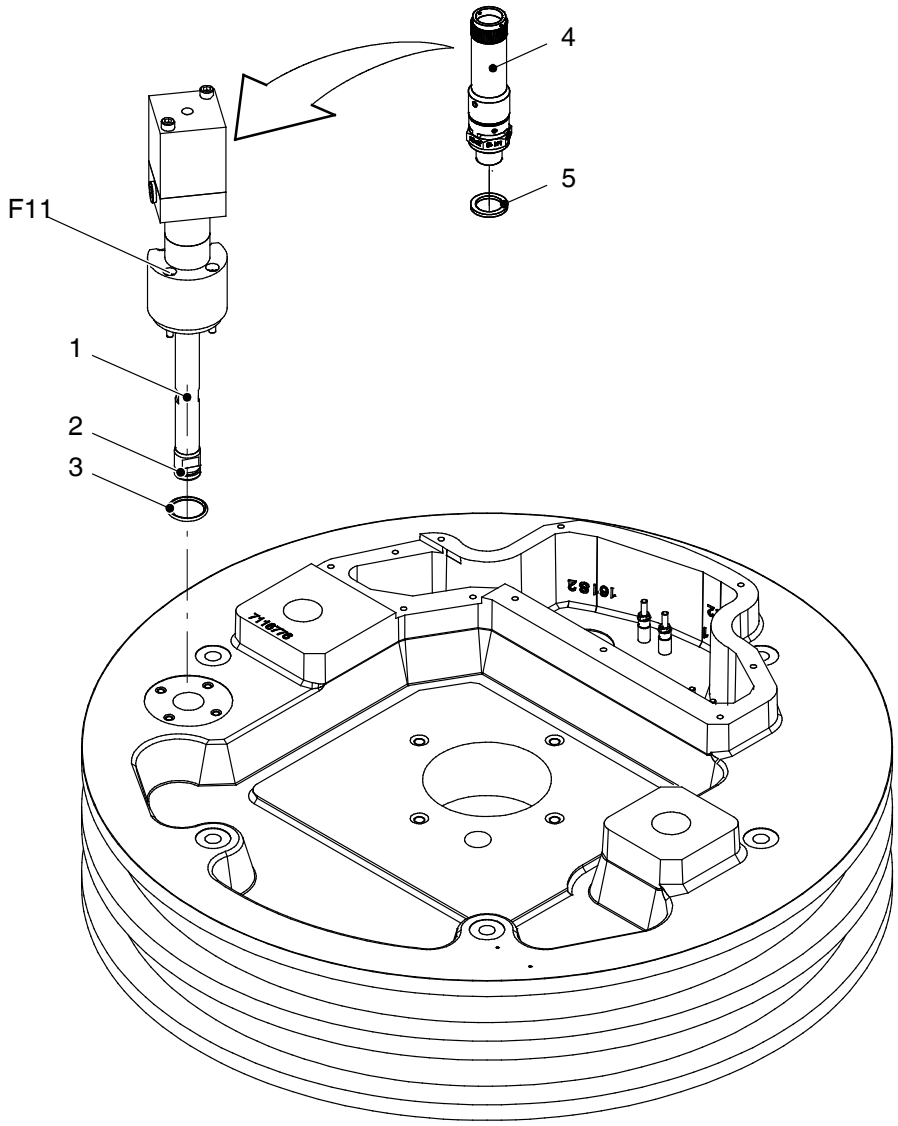


Fig. 11

Item	Part	Description	Quantity	Note	Box	Code
1	7116977	Aeration valve VersaDrum VX	1	2A1	17	A
2	250257	• O-ring 16x2 Viton	1			
3	252258	O-Ring 25x2,5 Viton	1			
4	785733	Safety valve 1,0bar 1/4	1	2V5		
5	255166	Sealing ring R1/4 type:PDR-14	1			

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Aeration (Manual)

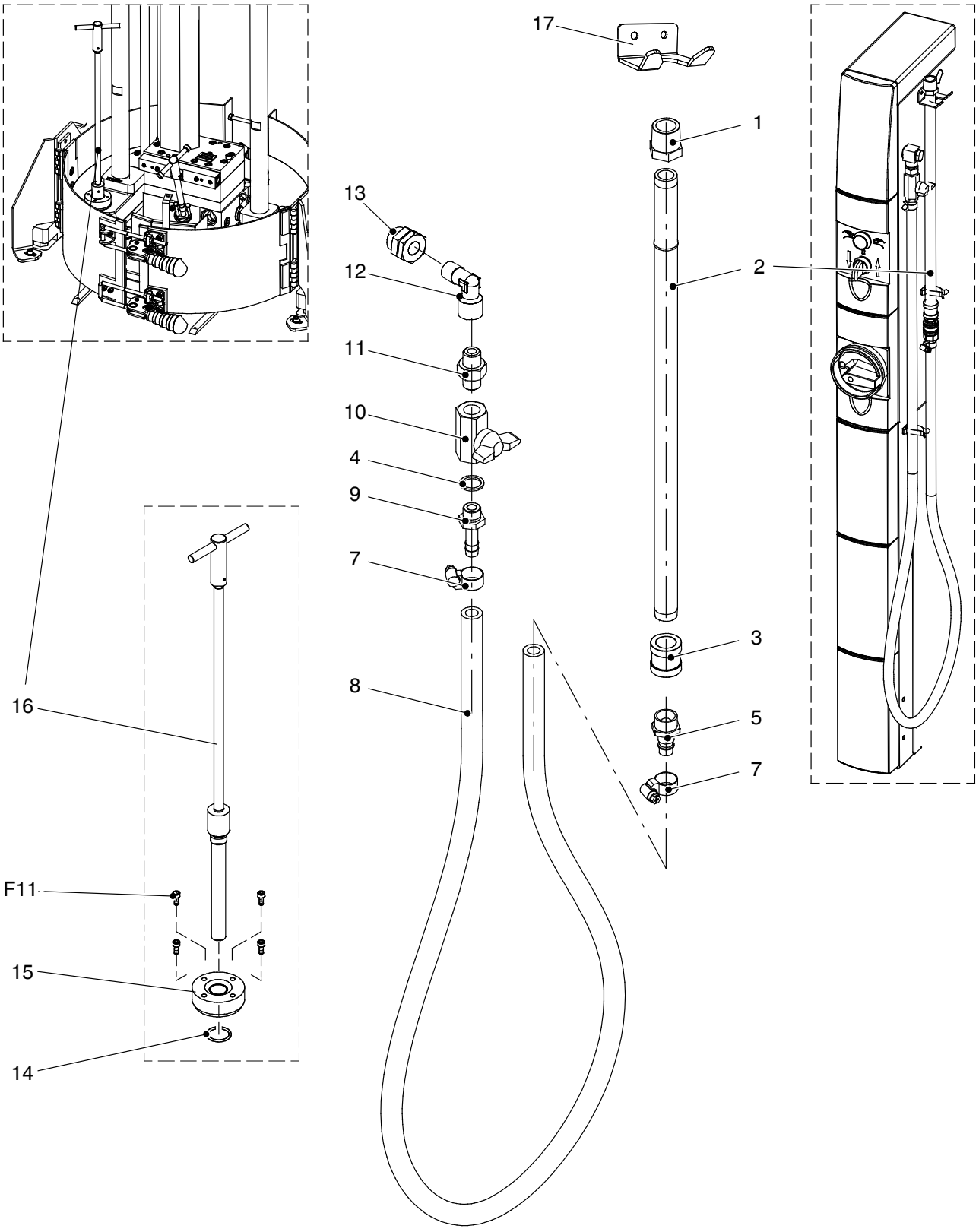


Fig. 12

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Item	Part	Description	Quantity	Note	Box	Code
-	------	*Aeration, manual*	-		17	X
-	7157310	*Aeration,manual VD/DDgen2*	1			
1	269169	• Reducer aR1/2-iRp3/8 L24 NW15	1			
2	394047	• Pipe, double side a=3/8”	1			
3	420185	• Fitting iG3/8-iG3/8	1			
4	255166	• Sealing ring R1/4 type:PDR-14	1			
5	7140459	• Hose nozzle aR3/8 Di9, turning	1			
7	252280	• Hose clamp D10-16/9 DIN3017	2			
8	394697	• Hose grey type:801-9,5	AR			
9	430078	• Hose nozzle aG1/4 Di9 L38	1			
10	255752	• Ball valve 2ways iG1/4-iG1/4 DN8 PN10	1			
11	269172	• Double nipple aR1/4-aR1/4	1			
12	314361	• Connection piece aR1/4-iRp1/4 90°	1	A		
13	318724	• Bulkhead connection iG1/4	1	A		
14	252258	O-Ring 25x2,5 Viton	1			
15	7140449	Flange, aeration plug VD/DD VX	1			
16	7140450	Aeration plug compl. VD/DD	1			
17	394048	Bracket, aeration	1			
-	------	Safety valve	1			

NOTE A: Replaces 428617
AR: As Required

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Deaeration until 10/2019

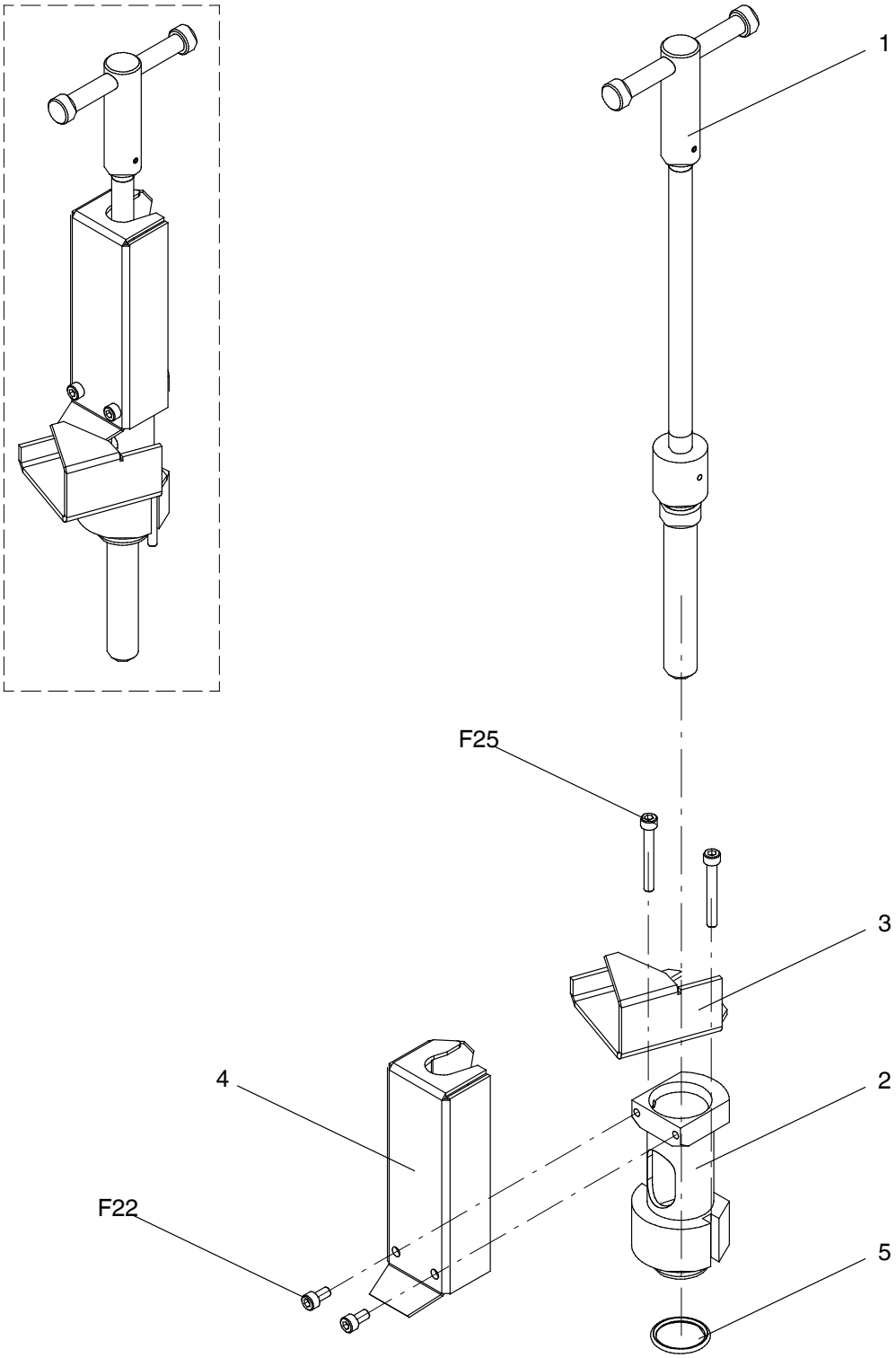


Fig. 13

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Item	Part	Description	Quantity	Note	Box	Code
-	7126046	Deaeration VD piston pump complete VX	1			
1	7126050	• Deaeration plug VD PP VX	1			
2	7126049	• Flange, deaeration VD piston pump VX	1			
3	7126521	• Drip plate VD deaeration pp VX	1			
4	7126052	• Splash guard VD deaeration pp VX	1			
5	252258	• O-ring 25x2,5 Viton	1			

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Deaeration since 11/2019

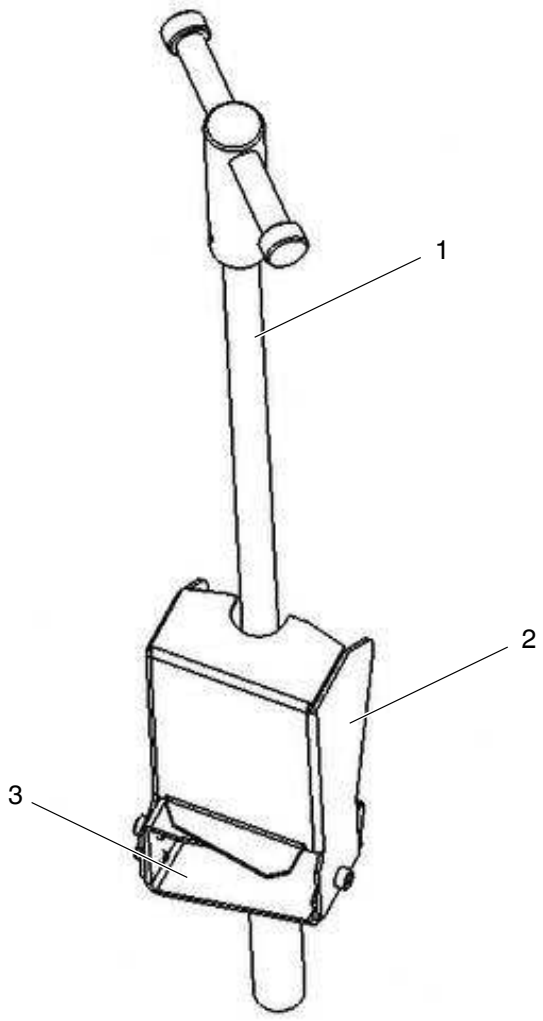


Fig. 14

Item	Part	Description	Quantity	Note	Box	Code
-		Deaeration VD piston pump complete VX	1			
1	7186041	• Deaeration plug VD PP VX	1			
2	7575968	• Back stop, VD deaeration PP	1			
3	7575801	• Drip plate VD deaeration rhino VX	1			

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Heat Protection Cover & Heater

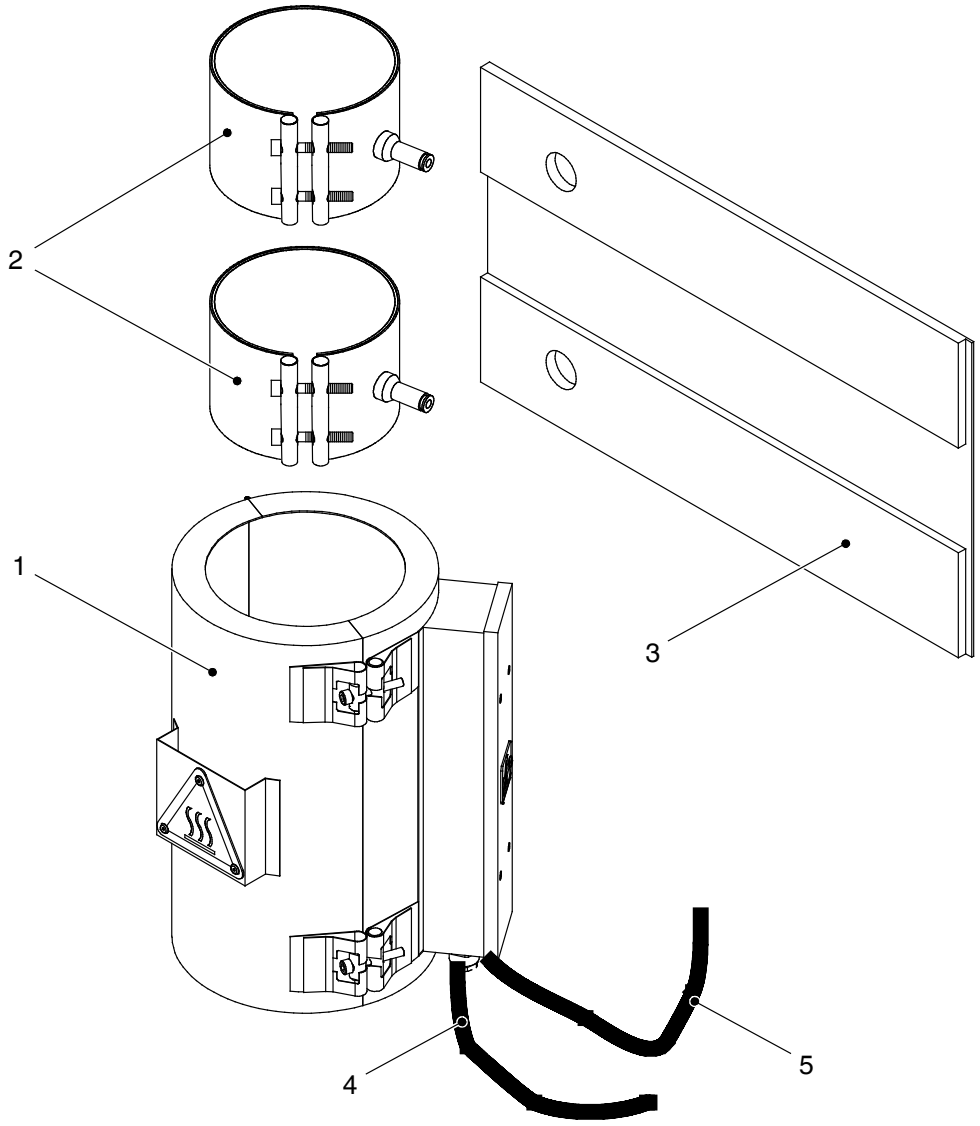


Fig. 15

Item	Part	Description	Quantity	Note	Box	Code
1	7140382	Heat protection cover,heater,piston pump	1			
2	7140463	Thinband heater VP/VD PP	2			
3	7140383	Insulation sleeve, heater, piston pump	1			
-	112374	SENSOR,TEMP.RTD,60IN. LEADS	1	NS		
4	7157378	Cable,heating piston pump VD	1			
5	7157379	Cable,hose manifold VP/VD PP	1			
NS: Not Shown						

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Piston Pump w/Air Motor until 10/2019

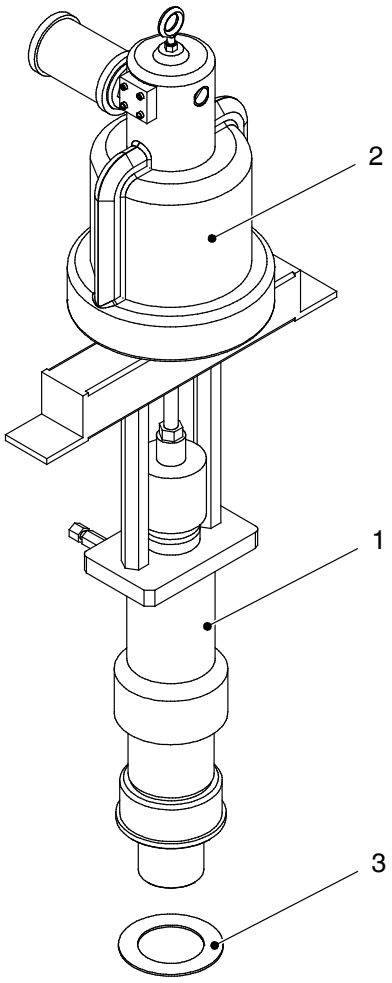


Fig. 16

Item	Part	Description	Quantity	Note	Box	Code
-	464670	Piston pump w/air motor	1			
1	------	• Piston Pump	1			
2	------	• Air Motor	1			
3	461696	Seal, piston pump	1			

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Spare Parts

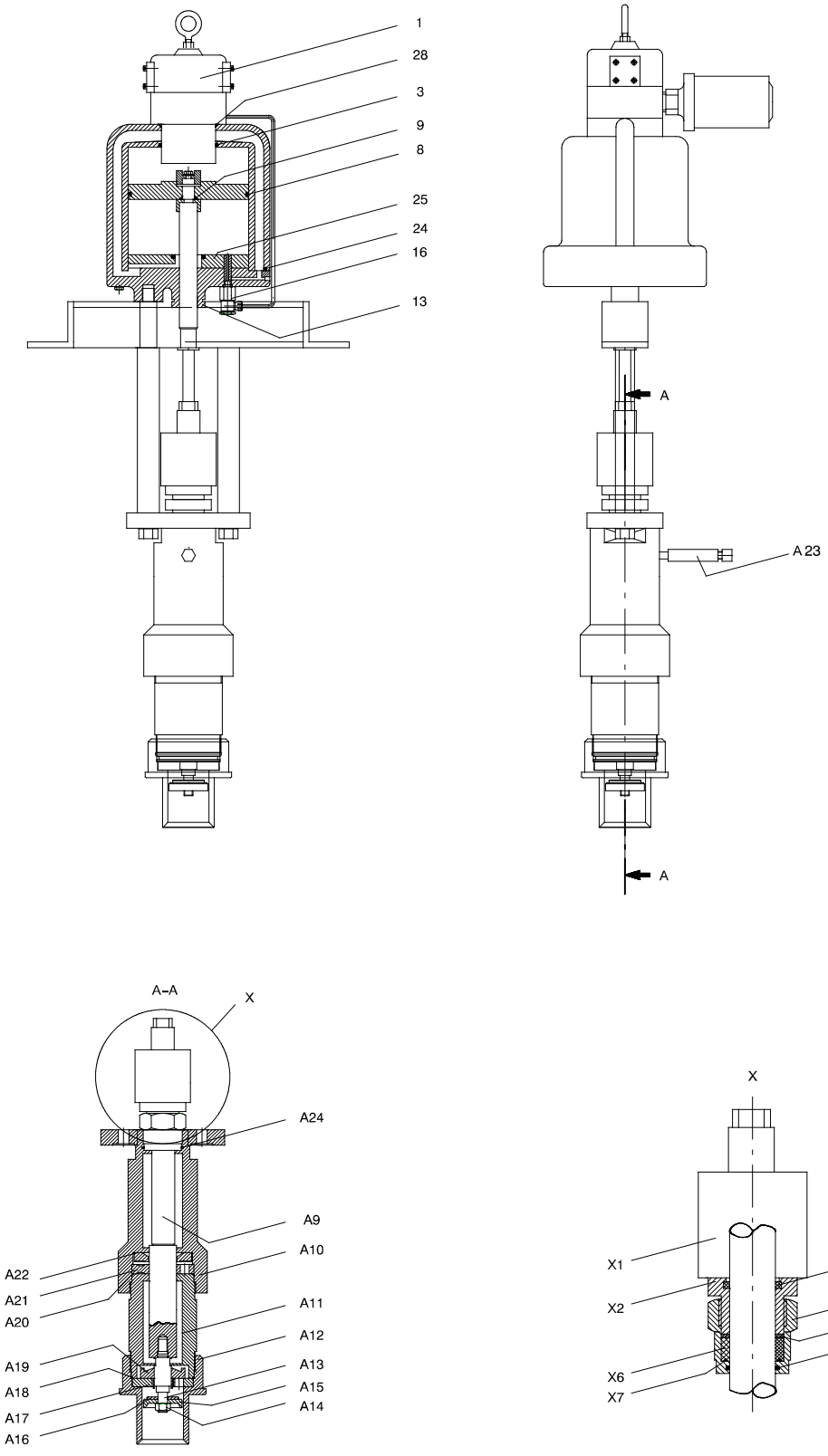


Fig. 17

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Item	Part	Description	Quantity	Box
-	464670	Pump, 42:1 ratio	1	
1	324677	• Valve, air	1	
3	324664	• O-ring	2	
8	324665	• O-ring, piston, 8 inch	1	
9	324666	• O-ring	1	
13	324669	• Nut, packing	1	
16	324672	• Poppet, lower	1	
24	324667	• Gasket, 8 inch	1	
25	324668	• Cushion assy, bottom, 8”	1	
28	324663	• O-ring	1	
-	900214	• Oil, vitalizer, 1 pint	2	
-	257326	• Heat conducting paste	1	
A9	324641	• Rod, piston	1	
A10	324642	• Housing, upper pump	1	
A11	324643	• Housing, lower piston	1	
A12	324644	• Housing, shovel primer	1	
A13	324645	• Rod, primer	1	
A14	324646	• Nut, jam	1	
A15	324647	• Plate, primer	1	
A16	324648	• Check, primer	1	
A17	324649	• Plate, lower check	1	
A18	324650	• O-ring	1	
A19	324651	• Valve, lower check	1	
A20	324652	• O-ring	1	
A21	324653	• Plate, upper check	1	
A22	324654	• Valve, upper check	1	
A23	324655	• Valve, bleeder	1	
A24	324656	• O-ring*	1	
X1	324640	• Gland, packing	1	See note A
X3	324657	• Wiper	1	
X5	324658	• Adapter, female	1	
X6	324659	• Packing, V, teflon, set	10	
X7	324660	• Adapter, male	1	
X8	324661	• O-ring, Teflon	1	

NOTE A: For replacement oder 7561946, Kit-SVC sealing kit packed gland PTFE

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Piston Pump w/Air Motor since 11/2019

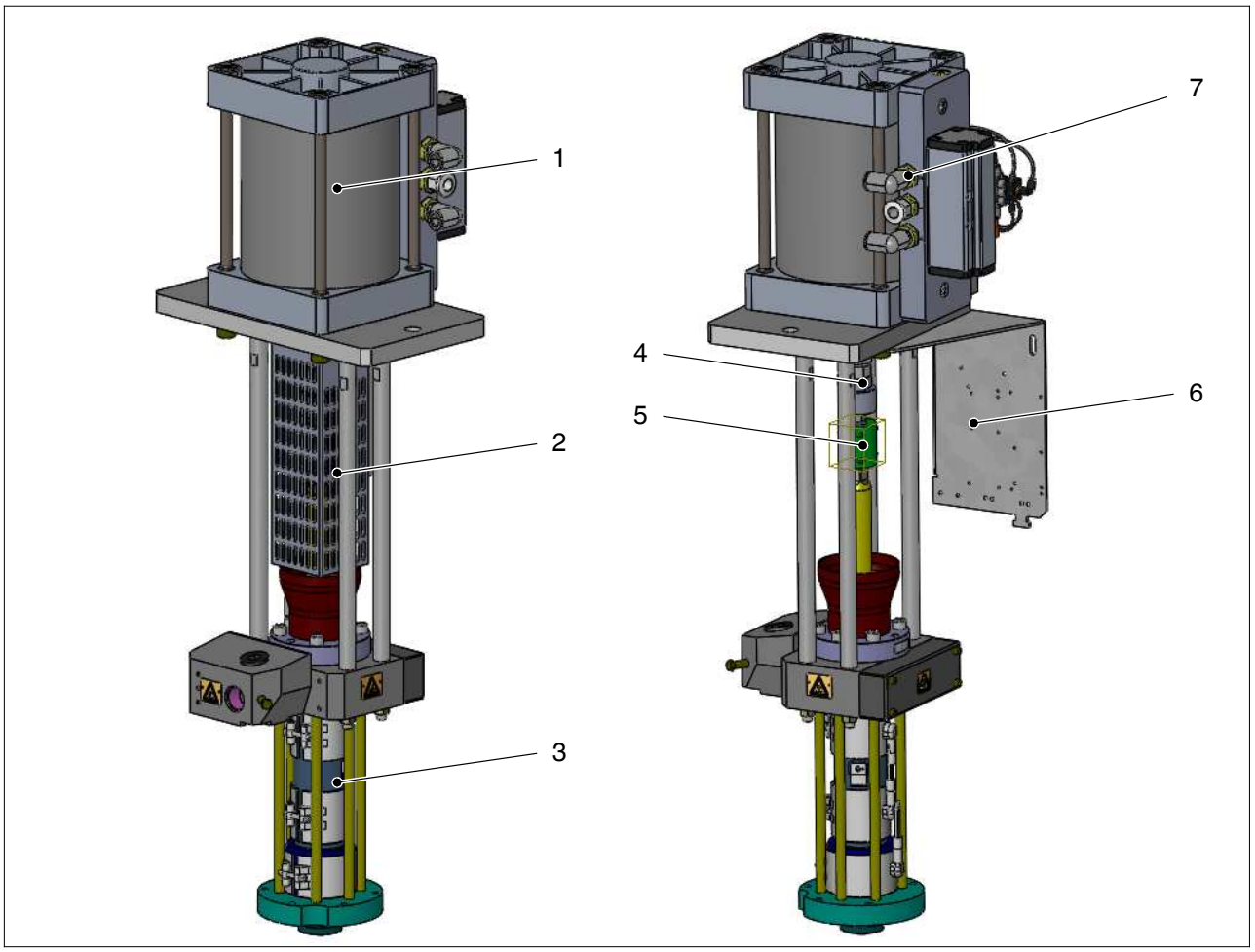


Fig. 18 Two different views of pump assembly

Item	Part	Description	Quantity	Note	Box	Code
-	-------	PUMP,AIR MOTOR ASSY,40:1,RHINO VD	1			
1	1612229	KIT,AIR MOTOR,RHINO,SD3/XD3,200MM	1			
2	7575803	cover VP/VD rhino pump	2			
3	7575691	PUMP,1.375D,5.8 CU IN,VD RHINO,HEATED	1	Fig. 19		
4	1607574	COUPLING,SHAFT,FLOATING JOINT,7/8-14THD	1			
5	1607572	COUPLER,SPLIT,M24X3.0,7/8-14 THREADS	1			
6	7186096	bracket,energy chain VD Rhino	1			
7	260730	reducer aR3/4-iRp1/2 L24	3			

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Pump

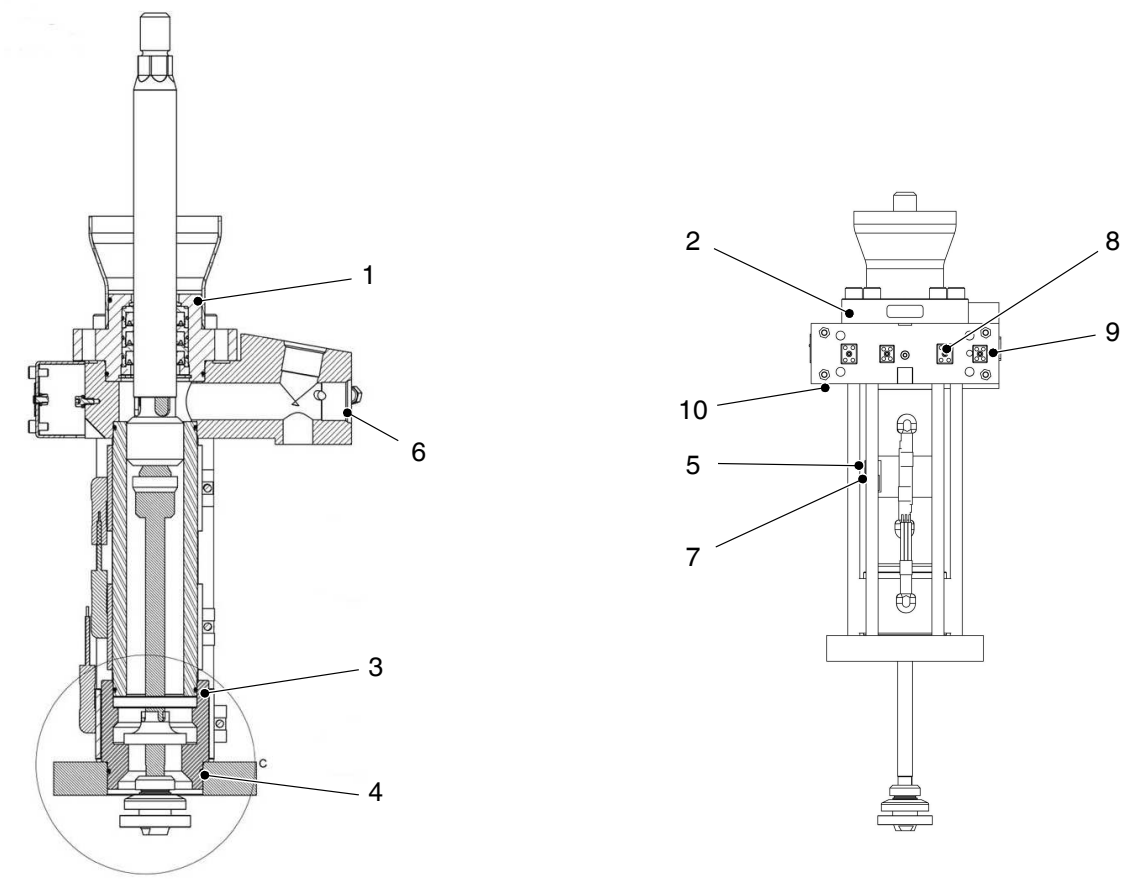


Fig. 19

Item	Part	Description	Quantity	Note	Box	Code
-	7575691	PUMP,1.375D,5.8 CU IN,VD RHINO,HEATED	1			
1	1015987	O RING,-149,VITON,2.800ID,.103W,75 +5D	1			
2	------	GLAND ASSY,TRI-LIP,1.375D,HEATED, VD/VP	1	A		
3	1015989	O RING,-144,VITON,2.487ID,.103W,90 D	2			
4	1015986	O RING,-150,VITON,2.862ID,.103W,75+5D	1			
5	------	SENSOR,TEMP.RTD,90IN. LEADS	1	B		
6	973583	PLUG,O RING,STR THD,1 5/16-12	1			
7	1081391	HOLDER,SENSOR,RTD,PUMP,HEATED	1			
8	7561564	Porcelain terminal 2pole 6,0mm^2	2			
9	7561563	porcelain terminal 2pole 2,5mm^2	2			
10	7561514	cable,hose manifold VD VP Rhino	1			
NOTE A: Order Kit SVC 7575951 for replacement. See page 80. B: Order Kit SVC 7186891 for replacement. See page 80.						

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Hose Manifold & Fittings

NOTE: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel. Compare figs. 20 and 21.

Prior to approx. year of production march 2011

NOTE: Hose Manifold and pump temperature are controlled by pump temperatur channel.

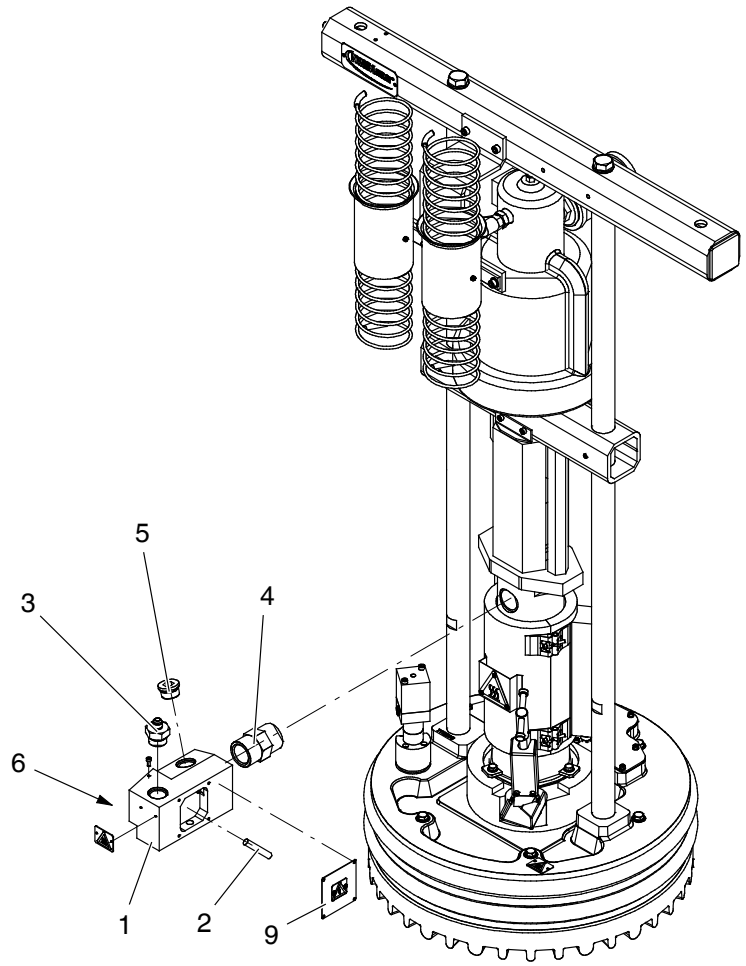


Fig. 20

Item	Part	Description	Quantity	Note	Box	Code
1	7126558	Hose manifold 2x1-1/16UNF VP/VD VX	1			
2	250682	Heater cartridge 3/8”x2” 230V-200W	1			
3	7126909	Hose connect.ftg.a9/16UNF-a1 1/16UNF	1,2	NW8	15 10	X A,B
	7126911	Hose connect.ftg.a1 1/16UNF-a1 1/16UNF	1,2	NW16	15 10	X A,B
3	7140077	Hose connect.ftg.a1 5/16UNF-a1 1/16UNF	1,2	NW22	15 10	K B
	972033	Hose connect.ftg.a1 5/8UNF-a1 1/16UNF (CONNECTOR,37DEG,STR THD,2.13)	1,2	NW28	15 10	M A,B
4	425075	Double nipple a1 1/4NPT-a1 1/4NPT	1			
5	7140105	Screw plug 1 1/16-12N with o-ring	1			
6		Plug (of bleeder valve)	1			
9	207283	electric cover 71x69x1 compl. CE				

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Since approx. year of production march 2011

NOTE: Hose Manifold temperature is controlled by a separate temperatur channel. This requires IPC 3 with software > 6.00.000 (see page 48, *Electrical Components*, 95A2)

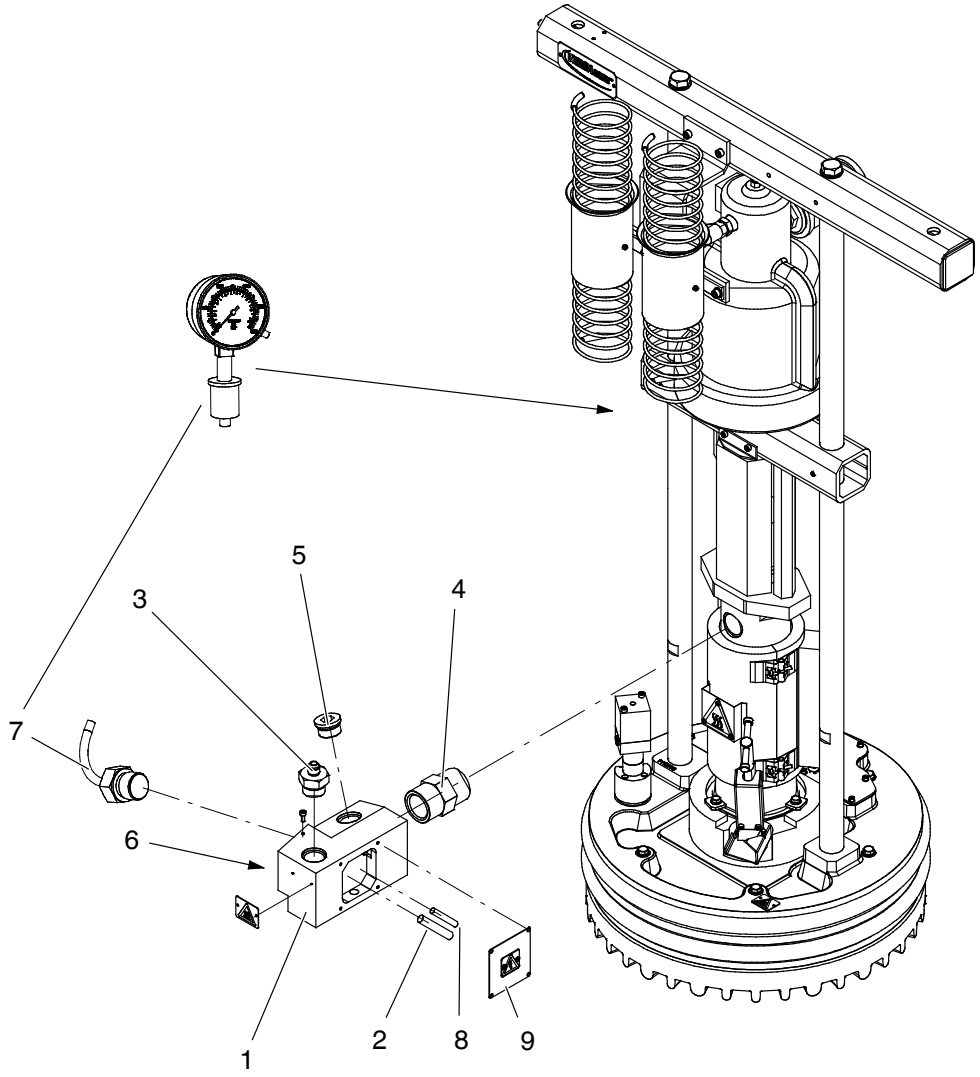


Fig. 21

Item	Part	Description	Quantity	Note	Box	Code
1	7157343	Hose manifold 2x1-1/16UNF VP/VD VX	1			
2	250673	Heater cartridge 3/8”x2” 230V-160W	2			
3	7126909	Hose connect.ftg.a9/16UNF-a1 1/16UNF	1,2	NW8		
	7126911	Hose connect.ftg.a1 1/16UNF-a1 1/16UNF	1,2	NW16		
4	425075	Double nipple a1 1/4NPT-a1 1/4NPT	1			
5	7140105	Screw plug 1 1/16-12N with o-ring	1			
6	324655	Plug (of bleeder valve)	1	page 28 (A23)		
7	7157374	Pressure indicator 0-100bar D63 w/trans.	1		10	B
	7157344	pressure indicator 0-200bar D63 w/trans.	1		10	A
8	120167	RTD,TEMP SENSOR 1/4X1.25NICKEL	1			
9	7134244	electric cover 89x79 t1,0 compl.	1			
	7157362	seal,electric cover 89x79, t=1 VPVD	1			

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Retractable Drip Shield

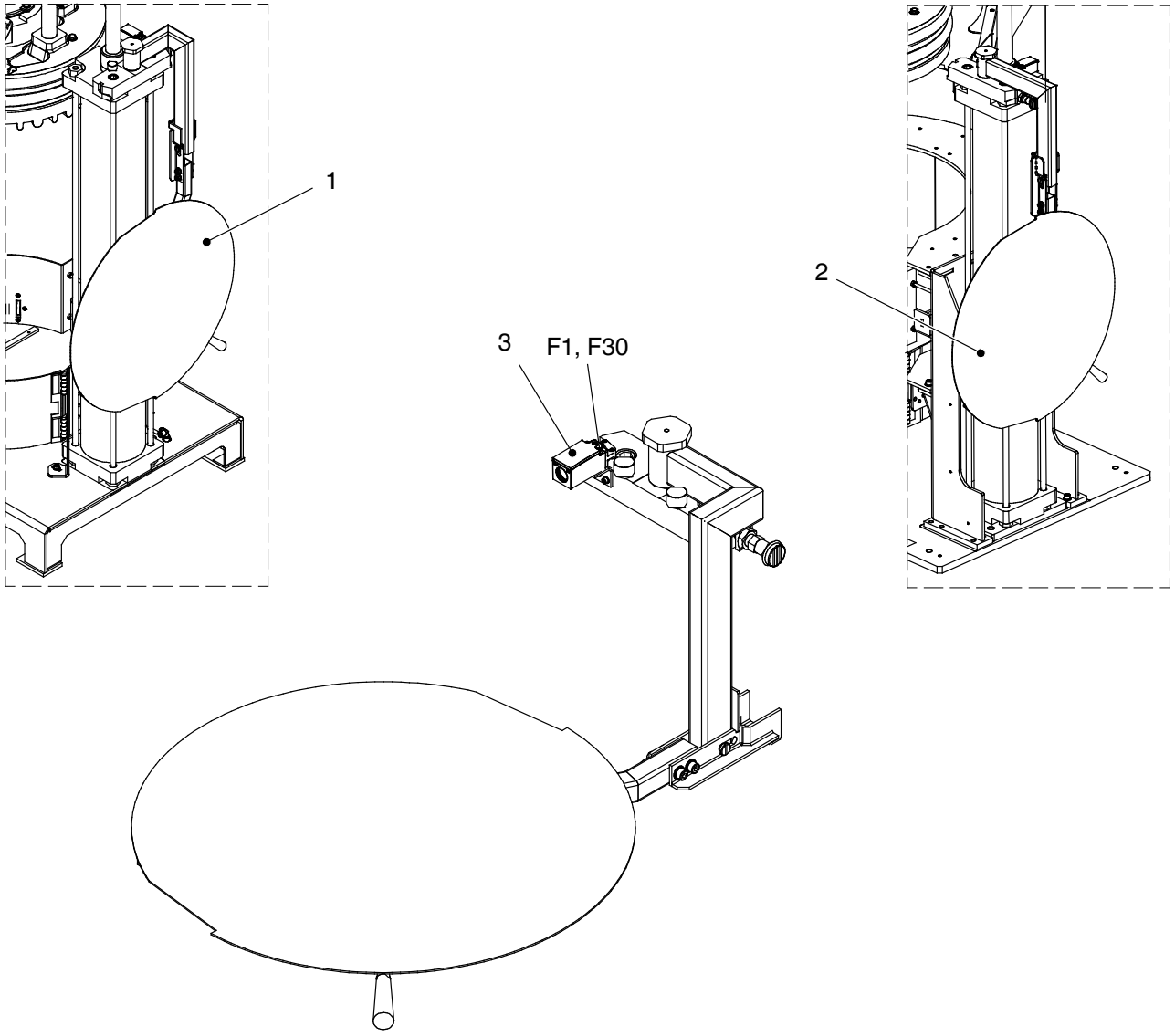


Fig. 22

Item	Part	Description	Quantity	Note	Box	Code
1	7136720	Retractable drip shield VD	1		23	D
3	7140289	• Position switch, roller lever IP66	1		26	X
2	7140832	Retractable drip shield VD	1		23	D
3	7140289	• Position switch, roller lever IP66	1		26	W

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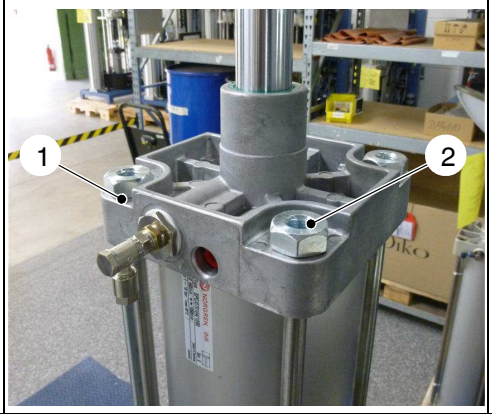
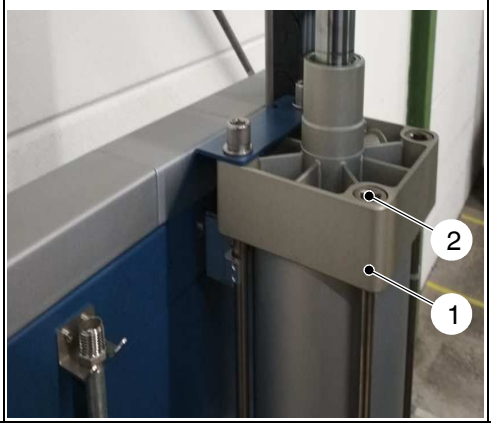
Pressure Cylinders

The bulk melters can be equipped with three slightly different cylinders.

The kit for repairing a cylinder is different for each type of cylinder.

The kit for replacing a cylinder is the same for all three cylinder types.

NOTE: If one of the old pneumatic cylinders is replaced, Nordson recommends to replace the second cylinder also.

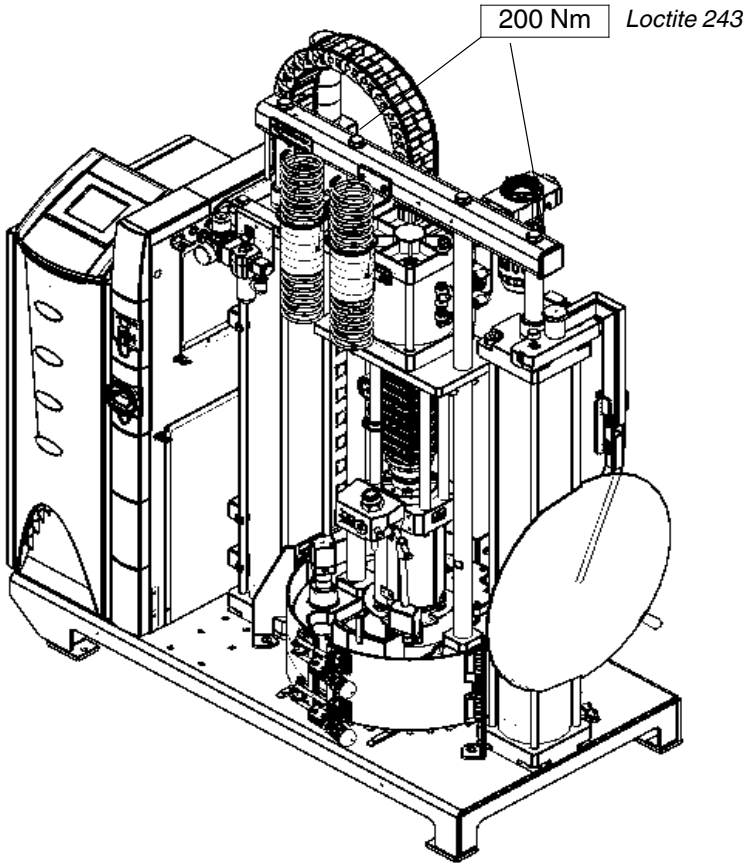
Part Number	Figure	Characteristic	Kit for Repair	Kit for Replacement
7096333		Square cylinder head (1) with hexagon head screws (2)	7140192	7186552
7116951		Round cylinder head	7186565	7186552
7085497		Square cylinder head (1) with countersunk hexagon socket screws (2)	6082413	7186552

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Service Kit Pneumatic Cylinder D160-1090

Item	Part	Description	Quantity
-	7186552	KIT-SVC pneumatic cylinder D160-1090	1
	-	PNEUMATIC CYLINDER D160-1090 AT	1
	-	Hexagon head screw M16x30	4
	-	Allan head cap screw M16x40	4
	-	Washer D17	4
	-	Plug-type thread-in	1
	-	Plug-type thread-in	1
	-	Air-operated hose	1 m
	-	Cable tie	10
	-	Key inbus SK14	1
	-	Timber 40mm x 200 mm x 4,00 mtr	160 cm^3
	-	Boarding 24mmx100mm 360cm	20 cm^3
	-	Boarding 24mmx100mm 360cm	20 cm^3

Allow only qualified personnel to replace service parts. Follow the safety instructions here and in the entire documentation. Observe the final torques:



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Pneumatic Components

Tower

Pneumatic Control

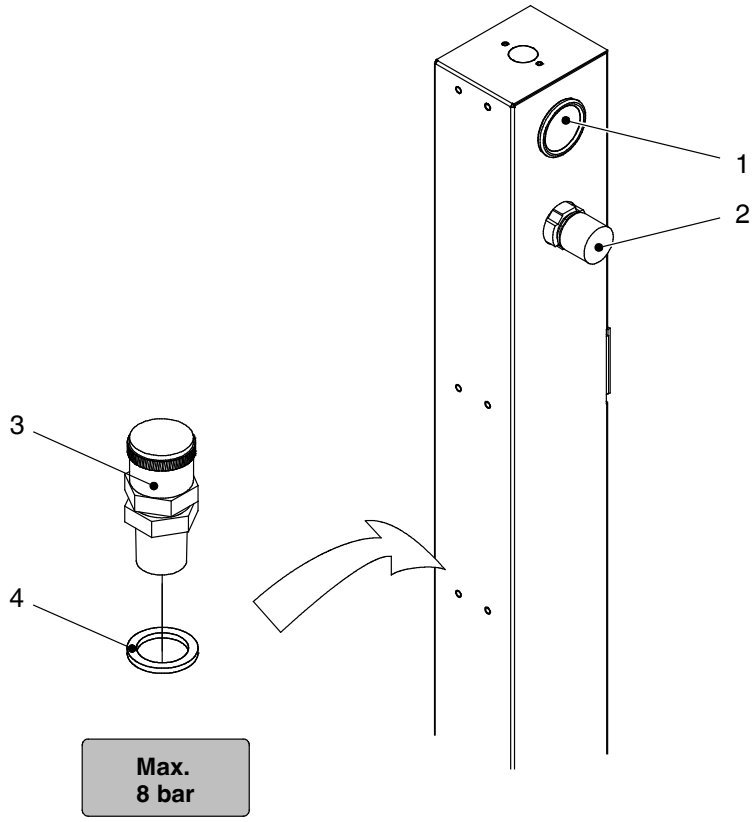


Fig. 23

Item	Part	Description	Quantity	Note	Box	Code
1	7140269	Pressure gage 0-10bar G1/8-back D50	1	0V3		
2	7140270	Pressure control valve 0,4-10bar G3/8	1	0V3		
3	7140261	Safety valve 8bar G1/4 SW17	1	0V1		
4	255166	Sealing ring R1/4 type:PDR-14	1			
-	7140266	Check valve D12-D12 NW8	1	0V2		

NOTE: Pneumatic Component Designation - Refer to *Pneumatic Schematic* on page 42.

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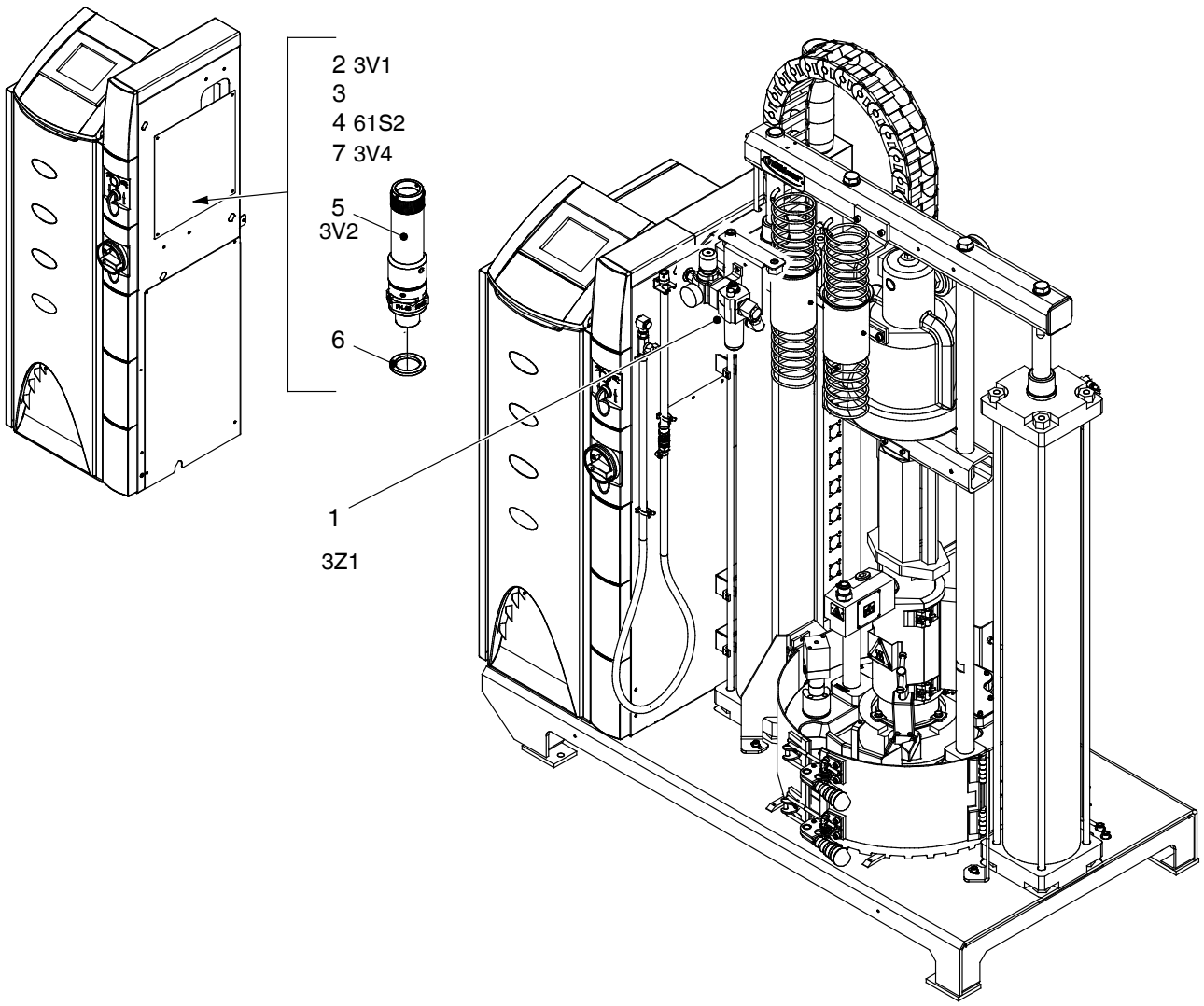


Fig. 24

Item	Part	Description	Quantity	Note	Box	Code
1	7131839	Oiler regulator G1/2 Excelon73 0,3-10bar	1		10	A
	7140424	Oiler regulator G1/2 Excelon73 0,3-4bar				B
2	7140272	Solenoid valve 3/2ways 24V/1,5W G3/8	1			
3	317941	Silencer R1/4	1			
4	7140276	Pressure switch 4,7bar G1/4	1	A, a	10	A
	7140275	Pressure switch 2,4bar G1/4	1			B
5	7157346	safety valve 6,8bar G1/4	1	A, b	10	A
	255021	Safety valve 4bar 1/4	1	A, c		B
6	255166	Sealing ring R1/4 type:PDR-14	1			
7	7140272	solenoid valve 3/2ways 24V/1,5W G3/8	1	A, d		

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel. This causes the following changes:

a: Obsoleted. Instead, 7157344 is used. See fig. 21, Pos. 7.

b: Replaces 207131, Safety valve 5bar ¼, order Kit 7186893 for replacement

c: Replaces 207130, safety valve 3bar G1/4

d: Added

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Air Hoses

Item	Part	Description	Quantity	Note	Box	Code
-	418496	Air hose D4,0 d2,8 PUR	AR			
-	289010	Air hose D6,0 d4,0 PUR silver	AR			
-	289009	Air hose D8,0 d5,7 PUR silver	AR			
-	424719	Air hose D12,0 d8,0 PUR silver	AR			
-	205982	Air hose D16,0 d11,0 PUR silver	AR			
-	252277	Air hose D6,0 d4,0 PTFE	AR			
-	252998	Air hose D8,0 d6,0 PTFE	AR			
-	403717	Air hose D10,0 d8,0 PTFE	AR			
AR: As Required						

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Pneumatic Panel - Pneumatic Component Designation until 05/2022

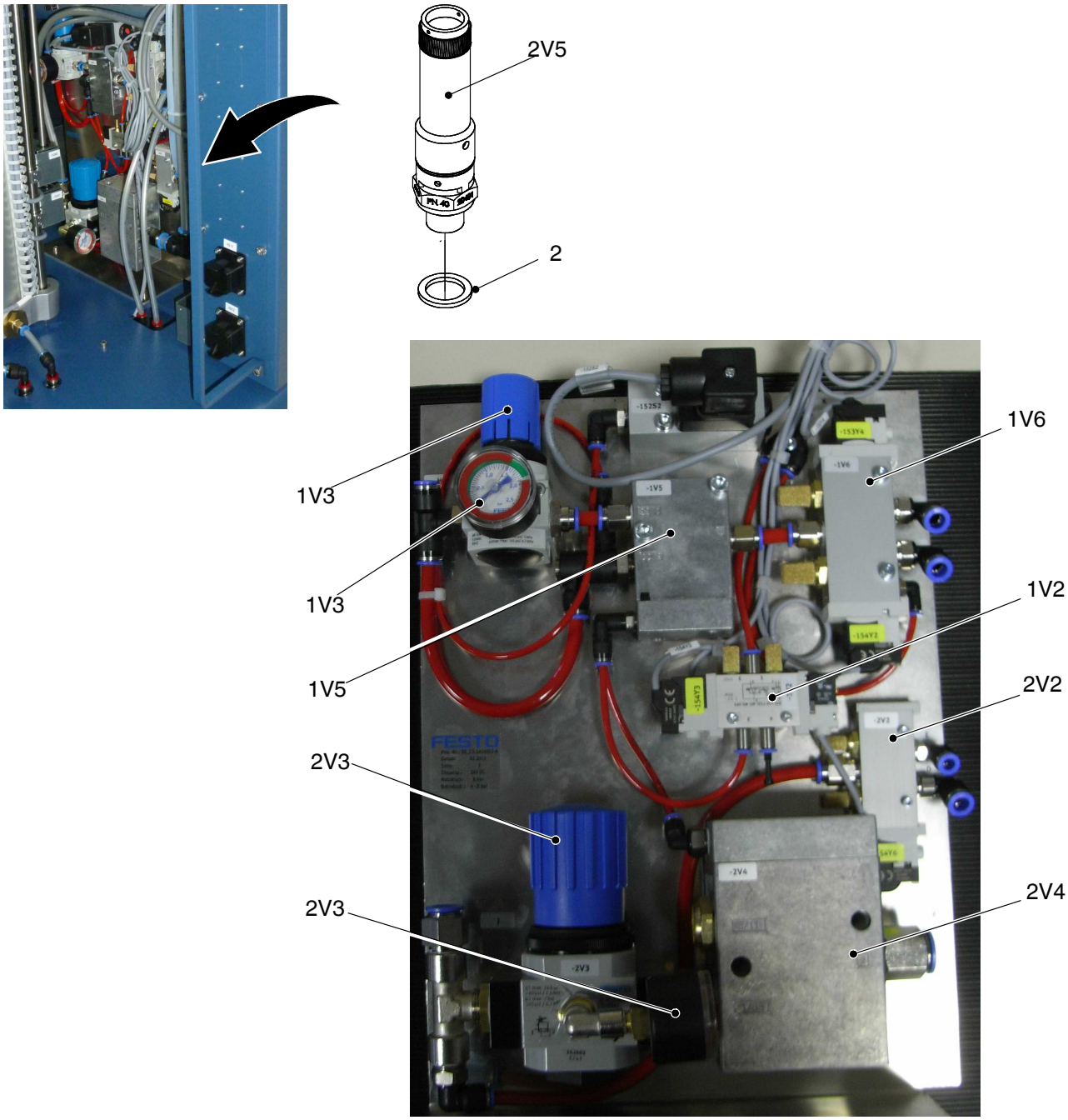


Fig. 25 Until 05/2022

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Pneumatic Panel - Pneumatic Component Designation (Forts.)

Item	Part	Description	Quantity	Note	Box	Code
2V5	785733	Safety valve 1,0bar 1/4	1		17	X
2	255166	Sealing ring R1/4 type:PDR-14	1			
-	7140474	**Pneumatic plate VP/VD compl.**	1	A		
1V2	------	• Solenoid valve 3/2 WV-NC flange w/o solenoid *Low pressure*	1	B		
	------	• Solenoid-22 INDF 24VDC 6W	1			
1V3	------	• Pressure gage 0-6bar G1/8-back D40	1			
1V3	------	• Pressure control valve 0,3-4bar G1/4	1			
1V5	------	• Valve 3/2 WV-NC G1/4 pressure	1			
1V6	------	• Valve 5/3-WV - APB G1/4 pressure	1			
2V2	------	• Valve 5/2 WV-NC G1/4 pressure	1			
2V3	------	• Pressure gage 0-2,5bar G1/8-back D40	1			
2V4	------	• Valve 3/2 WV-NC G3/8 pressure	1			
2V3	------	• Pressure control valve 0,3-4bar G3/8	1			
NOTE	A: Order service kit P/N 7186557 for replacement C: Electrical component designation on page 52.					

Service KIT Pneumatic Plate VP/VD

Item	Part	Description	Quantity	Note	Box	Code
	7186557	KIT-SVC pneumatic plate VP/VD				
	------	Pneumatic plate VP/VD compl.	1			
	------	air hose D6,0 d4,0 PUR silver	2 m			
	------	plug-type thread fitting -G-D08-D08-CONN	1			
	------	adapter SB1280 L3112	1			
	------	Air-operated hose D8,0 d5,7 PUR silver	2 m			
	------	IN-UNIVERSAL KIT PACKAGE INSERT	1			

Air Hoses

Refer to page 40.

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Pneumatic Panel - Electrical Component Designation since 06/2022

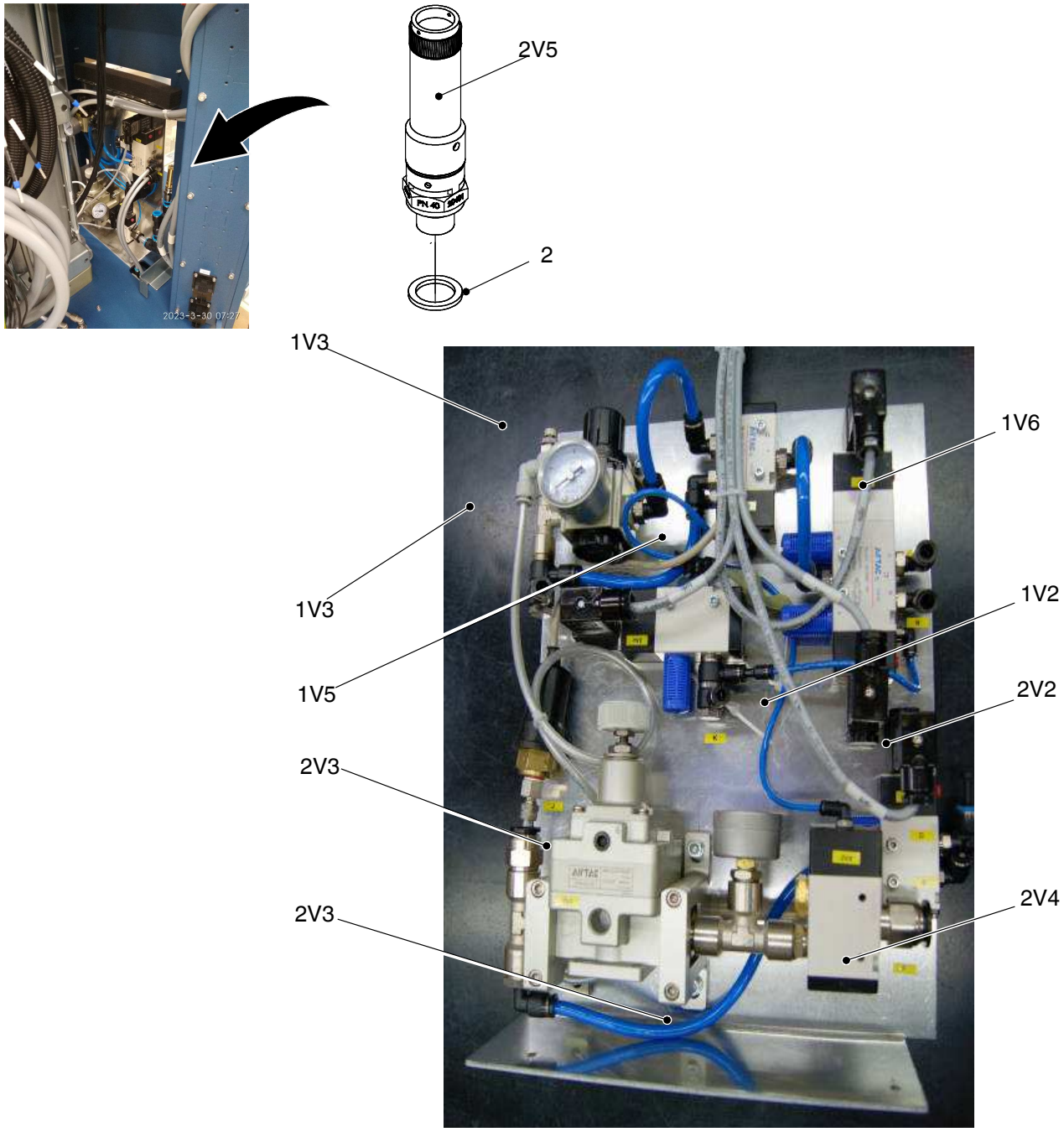


Fig. 26 Since 06/2022

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Pneumatic Panel - Electrical Component Designation since 06/2022

(Forts.)

Item	Part	Description	Quantity	Note	Box	Code
2V5	785733	Safety valve 1,0bar 1/4	1		17	X
2	255166	Sealing ring R1/4 type:PDR-14	1			
-	7140474	**Pneumatic plate VP/VD compl.**	1	A		
1V2	------	• Solenoid valve 3/2 WV-NC flange w/o solenoid *Low pressure*	1	B		
	------	• Solenoid-22 INDF 24VDC 6W	1			
1V3	------	• Pressure gage 0-6bar G1/8-back D40	1			
1V3	------	• Pressure control valve 0,3-4bar G1/4	1			
1V5	------	• Valve 3/2 WV-NC G1/4 pressure	1			
1V6	------	• Valve 5/3-WV - APB G1/4 pressure	1			
2V2	------	• Valve 5/2 WV-NC G1/4 pressure	1			
2V3	------	• Pressure gage 0-2,5bar G1/8-back D40	1			
2V4	------	• Valve 3/2 WV-NC G3/8 pressure	1			
2V3	------	• Pressure control valve 0,3-4bar G3/8	1			
NOTE	A: Order service kit P/N 7186557 for replacement D: Electrical component designation on page 62					

Air Hoses

Service KIT Pneumatic Plate VP/VD

Item	Part	Description	Quantity	Note	Box	Code
	7186557	KIT-SVC pneumatic plate VP/VD				
	------	Pneumatic plate VP/VD compl.	1			
	------	air hose D6,0 d4,0 PUR silver	2 m			
	------	plug-type thread fitting -G-D08-D08-CONN	1			
	------	adapter SB1280 L3112	1			
	------	Air-operated hose D8,0 d5,7 PUR silver	2 m			
	------	IN-UNIVERSAL KIT PACKAGE INSERT	1			

Refer to page 35.

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Pneumatic Schematic

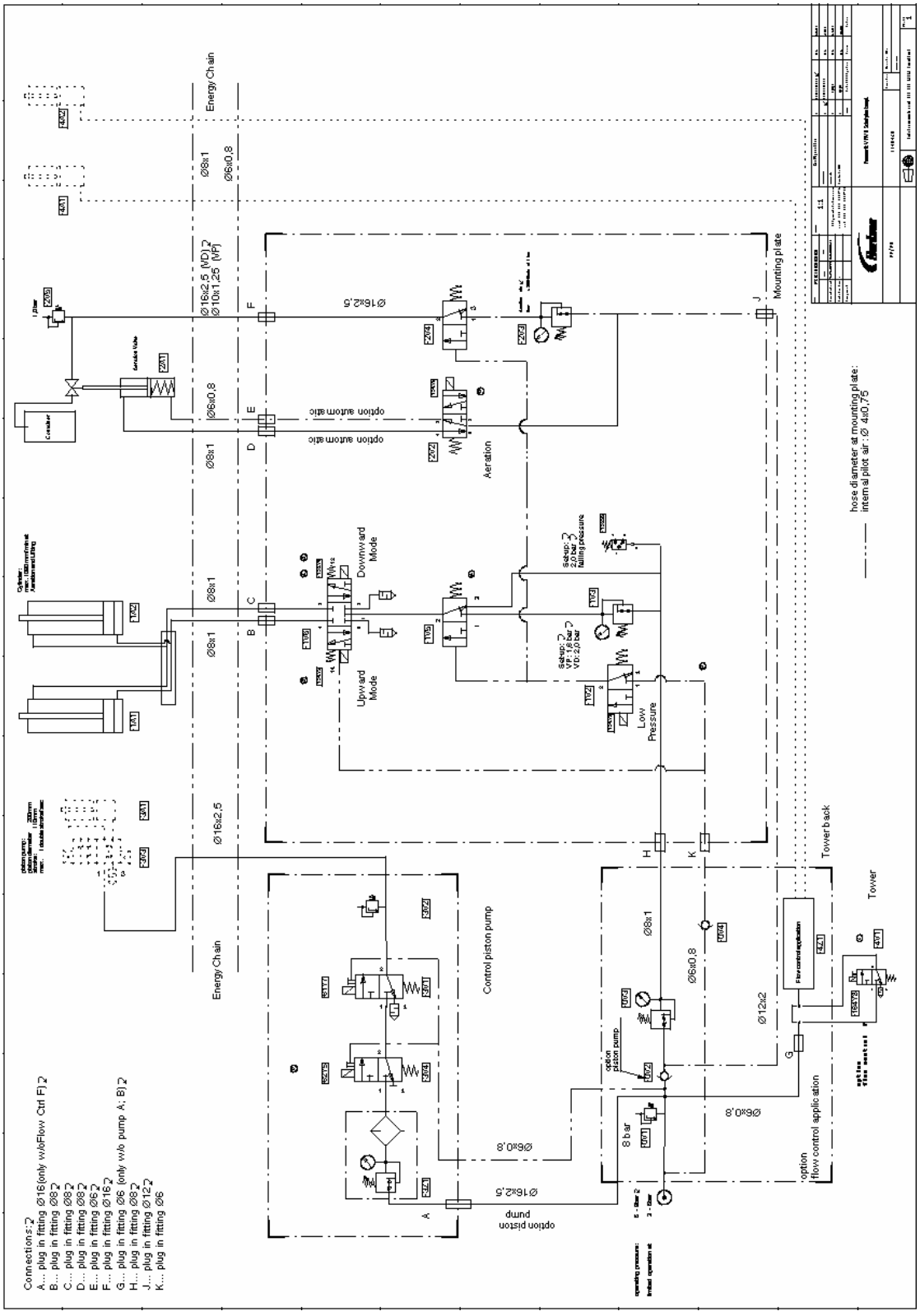
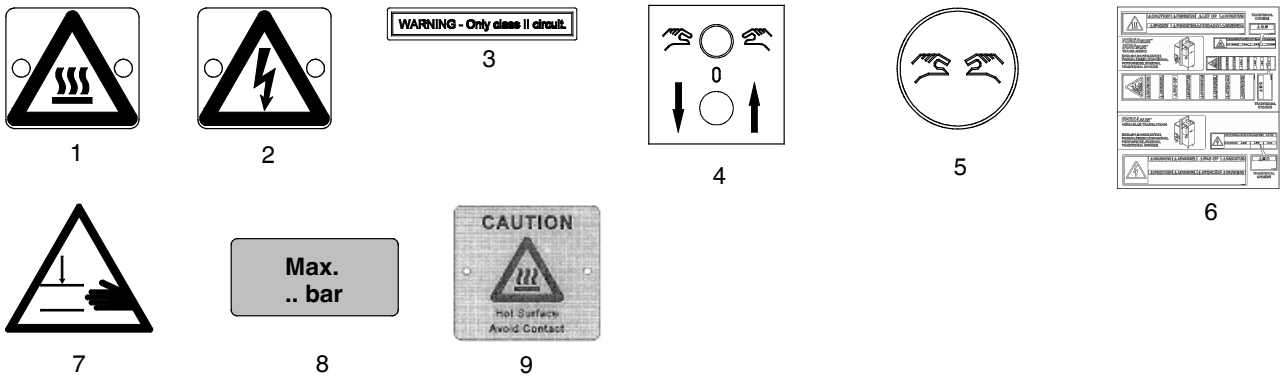


Fig. 27

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Warning Labels



1 2 3 4 5 6 7 8 9

Fig. 28

Item	Part	Description	Quantity	Note	Box	Code
1	408437	Sign, heat output,general	1			
	291387	Blind rivet cl.end 3,2x6,5 DIN7337	2			
2	290083	Sign, dangerous voltage	1			
	291387	Blind rivet cl.end 3,2x6,5 DIN7337	2			
3	7104911	Sign, warning low voltage self-adhesive	1			
4	729733	Sign, lifting O lowering self-adhesive	1			
5	207001	Sign, two-hand control, self-adhesive	1			
6	1025326 1024720 1025795 1059866	TAG, CAUTION, HOT SURFACE TAG, WARNING, HOT ADHESIVE TAG,WARNING,HAZARDOUS VOLTAGE TAGS,SHEET OF ,VERSA/DURABLUE LG,CE LANG	1 1 1 1			
7	421460	Sign, warning hand injury	1			
8	7140255	Sign ”Max. 8 bar” self adhesive	1			
	7157347	Sign ”Max. 6,8 bar” self adhesive	1	A, a	10	A
	7157375	Sign "max. 4,0bar" self adhesive		A, b		B
9	7150828	Sign,hot surface,general UL	1			
	255289	NOTCHED TAPER PIN 1,7x4 DIN1476	2			

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel. This causes the following changes:

a: Replaces 7140428, sign "max. 4,7 bar" self adhesive

b: Replaces 7140427, sign ”Max. 2,4 bar” self adhesive

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Electrical Components

▶ **STANDARD** Wiring Diagram P/N 7140533

Outside Electrical Cabinet

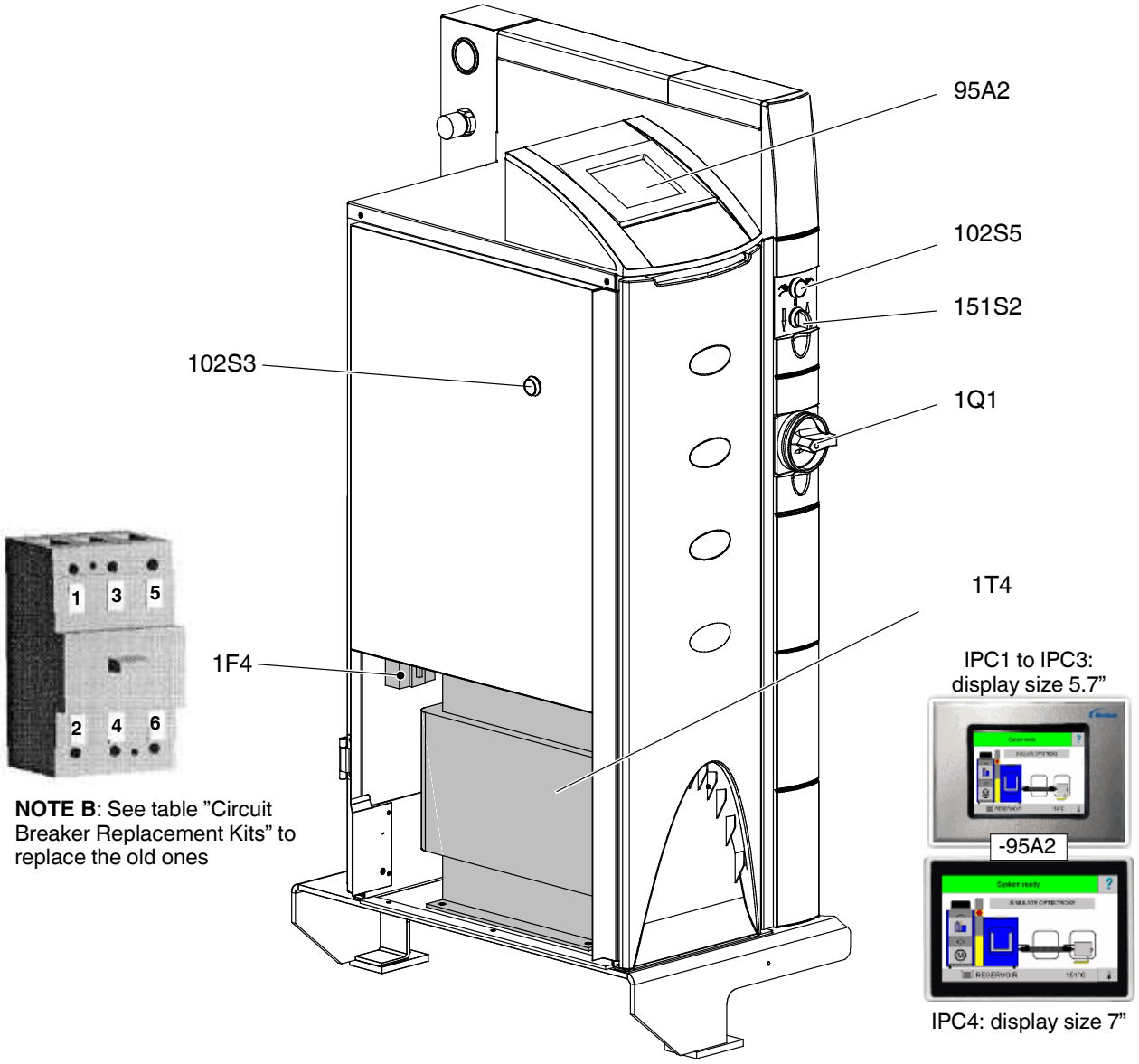


Fig. 29

Item	Part	Description	Quantity	Note	Box	Code
95A2	7168037	Central unit IPC generation 3 *Replaced by*				
	7575064	Central unit IPC generation 4	1	A		
	7561714	• cable 24VDC IPC gen.4 to XL11/12				
	7561767	• EMV clamp connectors				
	7561701	• Cable,PVC,2,5qmm,GN/YE for IPC				

Continued...

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95A2	7116608 7116941 7575064	PROFIBUS-DP slave for IPC generation 2&3 • Profibus adapter for IPC/PLC • RS232 adapter for IPC/PLC *Replaced by*	1		22	D N,E
95A2	7575065	Central unit IPC gen.4 with Profibus				D
151S2	7508976	Selector switch 1-0-2 M22-WRK3	1			
	460768	Mounting adapter type:M22-A	1			
	460769	Contact block type:M22CK10	3			
102S3 102S5	7126179	Push-button black M22-DH-S	1 1	left right		
	460768	Mounting adapter type:M22-A	2			
	460769	Contact block type:M22CK10	1			
	460770	Contact block type:M22CK01	1			
1Q1	256567	Main switch 3x100A / red/yellow	1		9 21	2,3 X
	7104109	Main switch 3x100A black	1		9 21	2,3 2
	252794	Main switch 3x63A RD/YE	1		9 21	4,5,6,7 X
	315250	Main switch 3x63A black	1		9 21	4,5,6,7 2
	251531 7104827	Main switch, rear mount 3x63A red/yellow Auxilary switch N-P3Z	1 1		9 21	4 1
	7104826 7104827	Main switch, rear mounting 3x63A black Auxilary switch N-P3Z	1 1		9 21	4 3
1T4 (161S5)	7157241	3ph.autotransformer 200V/400V 34KVA VD	1		9	2
	7157242	3ph.autotransformer 230V/400V 38KVA VD	1		9	3
	7126554	3ph.autotransformer VD 480V/400V 38KVA	1		9	5,6
	7157243	3ph.autotransformer 575V/400V 38KVA VD	1		9	7
1F4	7140643 7186847	Circuit breaker 100A 3-pole UL489 *Replaced by* CIRCUIT BREAKER 100A 3-pole,UL/CSA	1	B	9 21	2,3 X,2
	7126919 7186843	Circuit breaker 50A 3-pole, UL489 *Replaced by* CIRCUIT BREAKER 50A 3-POLE, UL/CSA	1	C	9 21	6 X,2
	7140642 7186846	Circuit breaker 40A 3-pole UL489 *Replaced by* CIRCUIT BREAKER 40A 3-POLE, UL/CSA	1	D	9 21	7 X,2

NOTE A: For replacement order P/N 7561765, Kit-SVC IPC 4 without profibus or P/N 7561766, Kit-SVC IPC 4 with profibus.

B: For replacement order kit 7561504.

C: For replacement order kit 7561505.

D: For replacement order kit 7561491.

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Notes on IPC Generations

Visual difference between IPC1-3 and IPC4 refer to Fig. 29

IPC Generation 3 (Obsolete with Replacement from January 2020)

Item	Part	Description	Qty	Note	Box	Code
-95A2	7168037	Central unit IPC generation 3 (w/o software)	1	A		
	7116608	PROFIBUS Slave for IPC Generation 2+3	1		22	D
-	7157443	**Kit-SVC memory card for IPC w/ SW** SW >=V6.00.000 for IPC generation 3	1	B		

NOTE A: The *Central unit* does not contain the Nordson software. Order memory board P/N 7157443.

B: CF cards IPC gen.3 w/SW >=V7.xx.xxx have an additional screen page where the motor controller (mc) type is selectable.

Replacement Kits for IPC Generations 1 to 3

Item	Part	Part	Description	Qty	Box	Code
-95A2	7561857	-	Kit-UPG IPC Gen.1+2+3 -> Gen.4 SD-Card	1	22	≠D
-95A2	-	7561858	Kit-UPG IPC Gen.1+2+3 ->Gen.4 SD-Card	1	22	D
-	------	------	• Console IPC Gen.4, versa blue series	1		
-	394829	394829	• Sealing cord D2,5	925mm		
-	7575064	-	• Central unit IPC gen.4	1	22	≠D
-	-	7575065	• Central unit IPC gen.4 with Profibus		22	D
-	7575197	7575197	• Kit-SVC memory card for IPC Gen.4 w/ SW	1		
-	------	------	• EMV clamp connectors	1		
-	------	------	• Cable,PVC,2,5qmm,GN/YE for IPC	1		
-	------	------	• Toothed lock washer M5	1		
-	------	------	• Cable CAN-BUS 7-fold B	1		
-	------	-	• Cable SUB-D 9P crossed fem.+male. (replaces 7104722+7104796 (and 7116941))	1	22	≠D

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Inside Electrical Cabinet

Door left

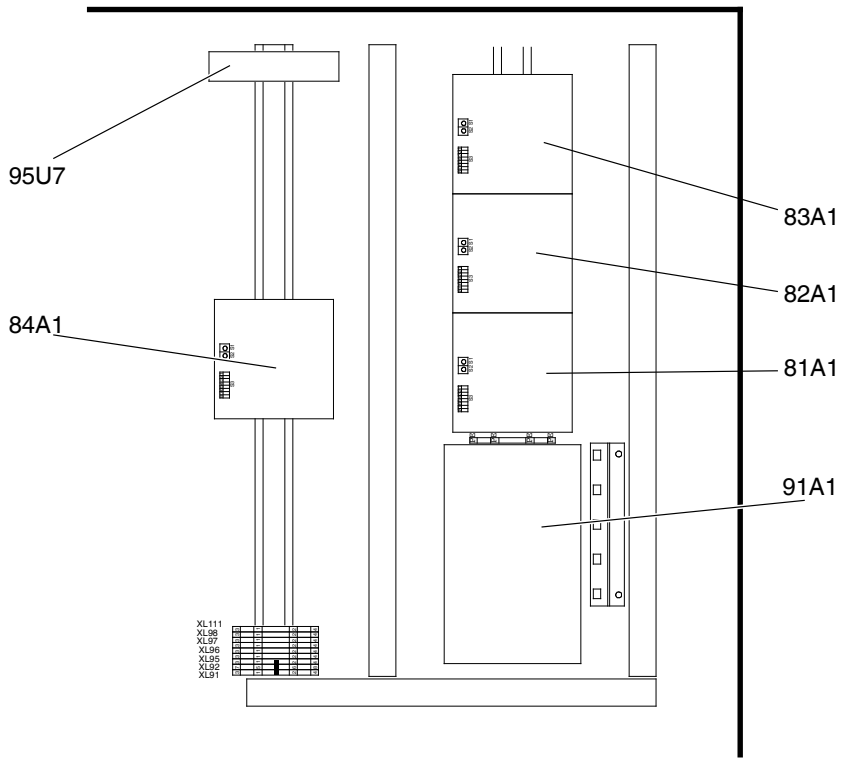


Fig. 30 Example

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Gateway

Item	Part	Description	Quantity	Note	Box	Code
Door Left						
91A1	207024	I/O board f. IPC	1			
81A1 82A1 83A1	729450 729450 729450	Temperature controller TR6K+ NI120/PT100	1 1 1		11	2,4,6,8 4,6,8 6,8
84A1	729450	Temperature controller TR6K+ NI120/PT100	1			
95U7	7109975	VB gateway w EtherNet/IP software V2.0	1		22	E
	6082769	KIT-RETROFIT GATEWAY ETHERNET/IP ABC3007 IPC2-3 > Kit comes with switch.power supply, cables (GATEWAY ABC3007 W/ CONF.>=V3.5)	1	IPC2 IPC3 Fig. 32 B begin. 5/2024		
	6082768	KIT-SVC GATEWAY ETHERNET/IP ABC3007 IPC2-3 (GATEWAY ABC3007 W/ CONF.>=V3.5)	1			
	7575185	**Kit-SVC gateway Ethernet/IP f.IPC Gen.4**	1	IPC4		
	------	• Ser. gateway w/Ethernet/IP softw >= V3.0	1			
	7599520	KIT-RETROFIT GATEWAY ETHERNET/IP ABC3007 IPC4 > Kit comes with switch.power supply, cables (GATEWAY ABC3007 W/ CONF.>=V3.5)	1	IPC4 Fig. 32 B begin. FEB 09, 2024		
	6082591	KIT-SVC GATEWAY ETHERNET/IP ABC3007 IPC4 (GATEWAY ABC3007 W/ CONF.>=V3.5)	1			
95U7	7116379	VB gateway w/ControlNet software V2.0	1		22	N
	7101571	ControlNet terminator 75 Ohm BNC	1			
	7157549	**Kit-SVC gateway Profinet IO**	1	< IPC4 Fig. 33		
	------	• Ser. gateway w/Profinet IO softw.V1.0-V2.9	1			
	7575186	**Kit-SVC gateway Profinet IO f.IPC Gen.4** - Kit is not replaced by P/N 7085632	1	IPC4 Fig. 33		
	------	• Ser. gateway w/Profinet IO softw V3.0-V3.4	1			
	7085632	**KIT-SVC GATEWAY ABC Profinet IO IPC4**	1	IPC4 begin. approx. 9/2021		
	------ ------ ------	• Ser. gateway w/Profinet IO softw >= V3.5 • CABLE SUB-D 9P FEM.+OPEN END • CABLE XLSC TO PROFINET IO	1 1 1			
95XS7	408508	ControlNet Connection Coax “T” *(located at rear panel)*	1			

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Item	Part	Description	Quantity	Note	Box	Code
95U7	6082772	KIT-RETROFIT GATEWAY PROFINET IO ABC3013 IPC3 > Kit comes with switch.power supply, cables (GATEWAY ABC3013 W/ CONF. >= V3.5) **NOTE:** Fieldbus data protocol: always set 24 bytes IN and 44 bytes OUT (extended).	1	IPC3 Fig. 33 B,C begin. 5/2022	22	P
	6082771	KIT-SVC GATEWAY PROFINET IO ABC3013 IPC3 (GATEWAY ABC3013 W/ CONF. >= V3.5)	1			
	7085632	KIT-RETROFIT GATEWAY PROFINET IO ABC3013 IPC4 > Kit comes with switch.power supply, cables (GATEWAY ABC3013 W/ CONF. >= V3.5) **NOTE:** Fieldbus data protocol: always set 24 bytes IN and 44 bytes OUT (extended).	1	begin. approx. 2/2022 B,C		
	7085974	KIT-SVC GATEWAY PROFINET IO ABC3013 IPC4 (GATEWAY ABC3013 W/ CONF. >= V3.5)	1	Fig. 33 B		

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Gateway Connection Depending On IPC Generation

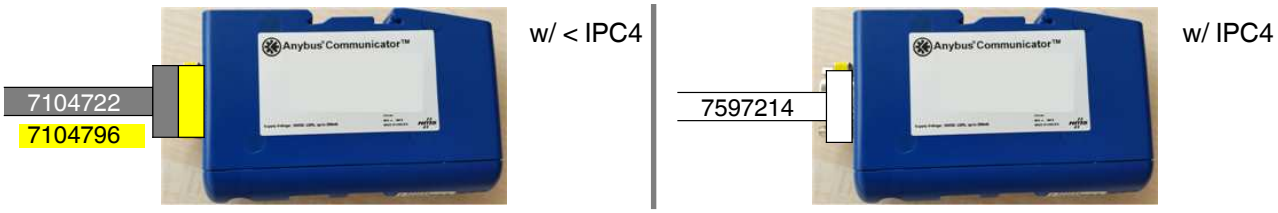


Fig. 31

EtherNet/IP Gateway Types



Gateway AB7007-C

Gateway AB7072-B

Gateway ABC3007

Fig. 32

Profinet IO Gateway Types



Gateway AB7013

Gateway ABC3013

Fig. 33

B:	Check https://emanuals.nordson.com/adhesives/software/VersaSoftware.html for correct versions and downloads of EDS and GDSML files.
C:	Refer to Nordson.canto.com/v/library (public portal) for fieldbus manual P/N 7135952. Use manual revisions >=15 to see the differences in fieldbus data protocols for Profinet IO gateways IPC4.

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Door Right

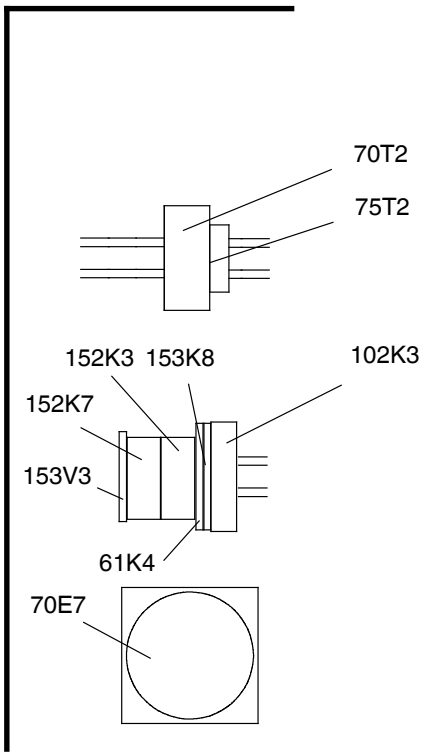


Fig. 34 Example

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Item	Part	Description	Quantity	Note	Box	Code
Door Front						
70E7	207400	Fan type:4184NGX V=160 3,5W	1			
	785745	Exhaust filter PFA2000 RAL9011	1			
XL	729916	Resistance 120R	1	CAN-Bus		
153V3	7109723	Terminal block ZDK 2,5/1,5D1 *Two hand operation*	1			
152K7	285332	Relay MY4N-D2 24VDC w/indicating lamp *Container Detection*	1			
152K3	285332	Relay MY4N-D2 24VDC w/indicating lamp *Air input detection*	1			
61K4	7104924	Relay coupler 24VDC *Motor is running* *Replaced by P/N 7561324, use kit 7561360 for replacement*	1			
	7561324	Relay coupler 24VDC	1			
153K8	7104924	Relay coupler 24VDC *High lift pressure* *Replaced by P/N 7561324, use kit 7561360 for replacement*	1			
153K8	7561324	Relay coupler 24VDC	1			
102K3	729054 7157302	*Replaced by* two hand relay 24V DC ESR5-NZ-21	1	A		
70T2	207678 6082432	Switching power supply 230V/N/24V 90W *Replaced by* SWITCHING POWER SUPPPLY ABB 230/24V 120W	1			
75T2	6082363 6082445	SWITCHING POWER SUPPPLY 230V/N/24V 15W *Replaced by* SWITCHING POWER SUPPPLY ML 230/24V 15W	1	B		
NOTE	A: Order service kit P/N 7157307 for replacement B: From 2/2022 in combination with gateway of kit 7085632 or 7575185					

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Mounting Plate

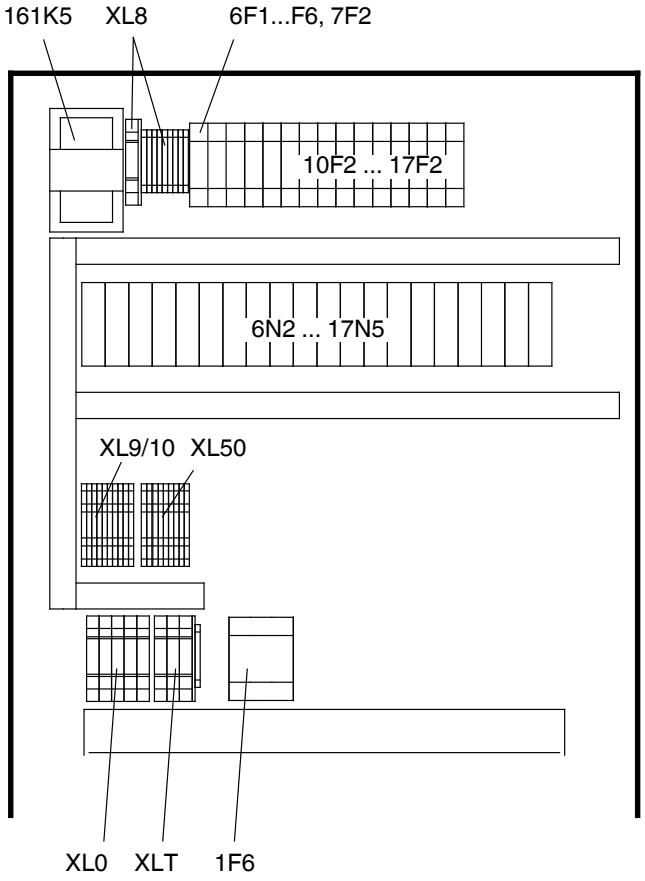


Fig. 35 Example

Item	Part	Description	Quantity	Note	Box	Code
Mounting Plate						
161K5	7116742	Contactor DILM40(RDC24)	1			
161K5	7116747	Slave contactor block DILM150-XHI11	1			
XL8	7109926	Terminal block XL8	1			
	7109927	Terminal block XL8_2	1			
6F1	251365	Circuit breaker 20A 1-pole FAZ-B20/1	1	Heating punch		
6F2	251365		1			
6F3	251365		1			
6F4	251365		1			
6F5	251365		1			
6F6	251365		1			
7F2	457991	Circuit breaker 10A 1-pole FAZ-B10/1	1			
10F2	457991	Circuit breaker 10A 1-pole FAZ-B10/1	1		11	2,4,6,8
...	...		...		...	...
17F2	457991		1		11	8

Continued on next page

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Item	Part	Description	Quantity	Note	Box	Code
-	7140104	Protective cap Busbar SZ-BSK, UL	AR			
-	7126114	Current bar 3-pole EVG-16/3PHAS/6MOD.	AR			
-	7126115	Current bar 3-pole EVG-16/3PHAS/12MOD.	AR			
6N2	7126835	Solid-state relay G3PB 200-480V MAX. 25A	1			
6N3	7126835		1			
6N4	7126835		1			
7N2	207396	Solid-state relay G3PB 100-260V MAX. 15A	1			
7N5	207396	Solid-state relay G3PB 100-260V MAX. 15A	1	A, a		
10N2	207396	Solid-state relay G3PB 100-260V MAX. 15A	1		11	2,4,6,8
10N5	207396		1			2,4,6,8
...	...		...			
17N2	207396		1			8
17N5	207396		1			8
XL9/10	7109934	Terminal block XL9/10	1			
XL50	7140337	Terminal block XL50 VP/VD,KP	1			
XL0	7140421	Terminal block XL0/XLT 3x200V VD	1			
	7109932	Terminal block XL0 400V	1			
XLT	7109933	Terminal block XLT	1			
1F6	254244	Circuit breaker 50A 3-pole, FAZ-B50/3	1		9 21	2,3 X,2
	7126918 7186842	Circuit breaker 60A 3-pole, UL489 *Replaced by* CIRCUIT BREAKER 60A 3-POLE, UL/CSA	1	B	9 21	4,5 X,2
	7140446 7186844	Circuit breaker 60A 4-pole, UL489 *Replaced by* CIRCUIT BREAKER 60A 4-POLE, UL/CSA	1	C	9 21	4 1,3
	318248	Circuit breaker 63A 3-pole, FAZ-B63/3	1		9 21	6,7 X,2

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel (see page 32, *Hose Manifold & Fittings*). This causes the following changes:

a: Added

B: For replacement order kit 7561492.

C: For replacement order kit 7561497.

AR: As Required

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Pneumatic Panel - Electrical Component Designation until 05/2022

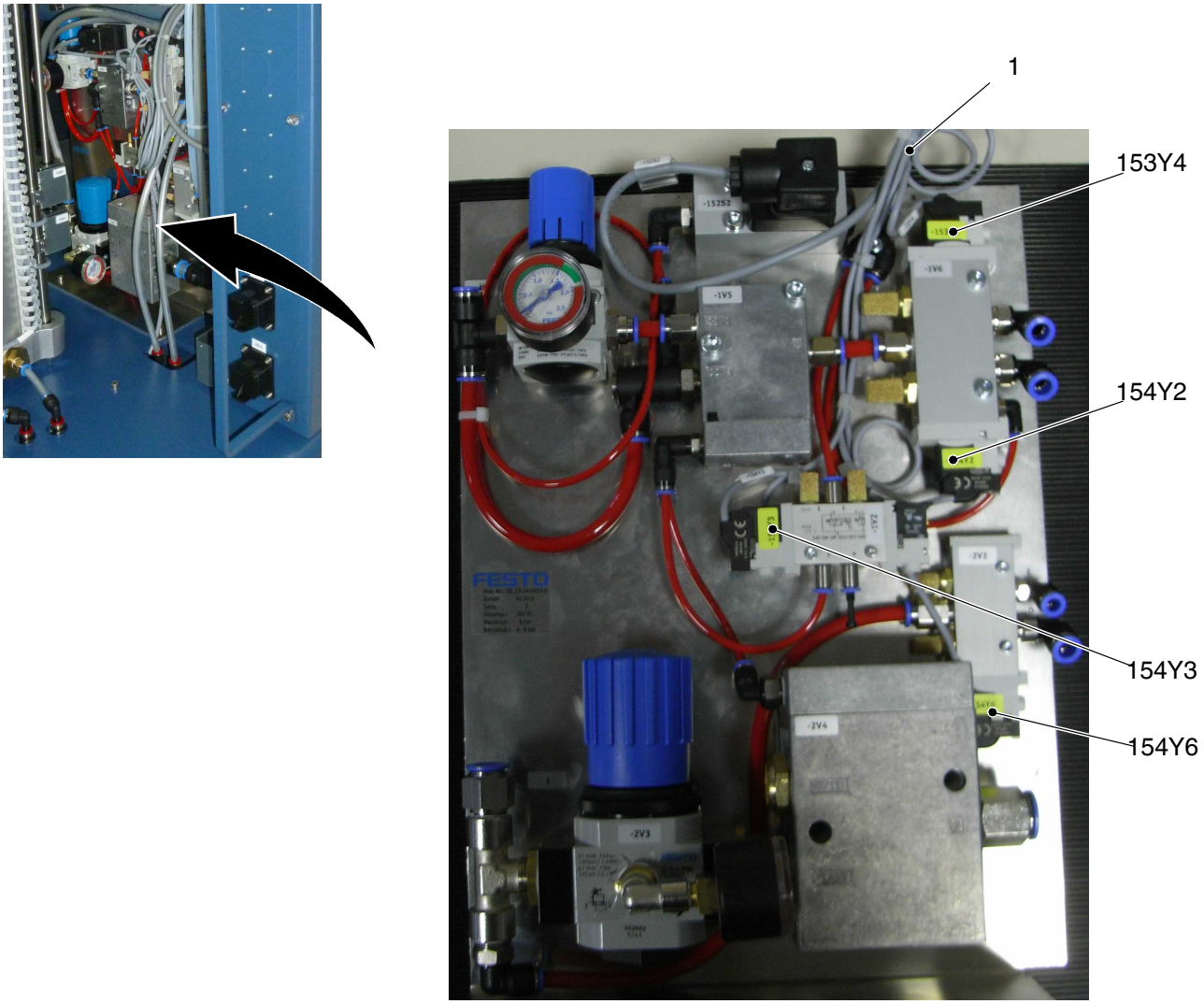


Fig. 36 Since 06/2015

Item	Part	Description	Quantity	Note	Box	Code
1	7186637	Cable, pneumatic to XL50 VP/VD, Fe	1			
154Y6	2V2	• SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1	A		
154Y3	1V2	• SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1	B		
154Y2	1V6	• SOL VALVE 5/3ways VUVG-L18-24V-G1/4	1	C		
153Y4			1			
NOTE	A: Order kit 7186640 for replacement. See below. B: Order kit 7186641 for replacement. See below. C: Order kit 7186639 for replacement. See below.					

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Pneumatic Panel - Electrical Component Designation since 06/22

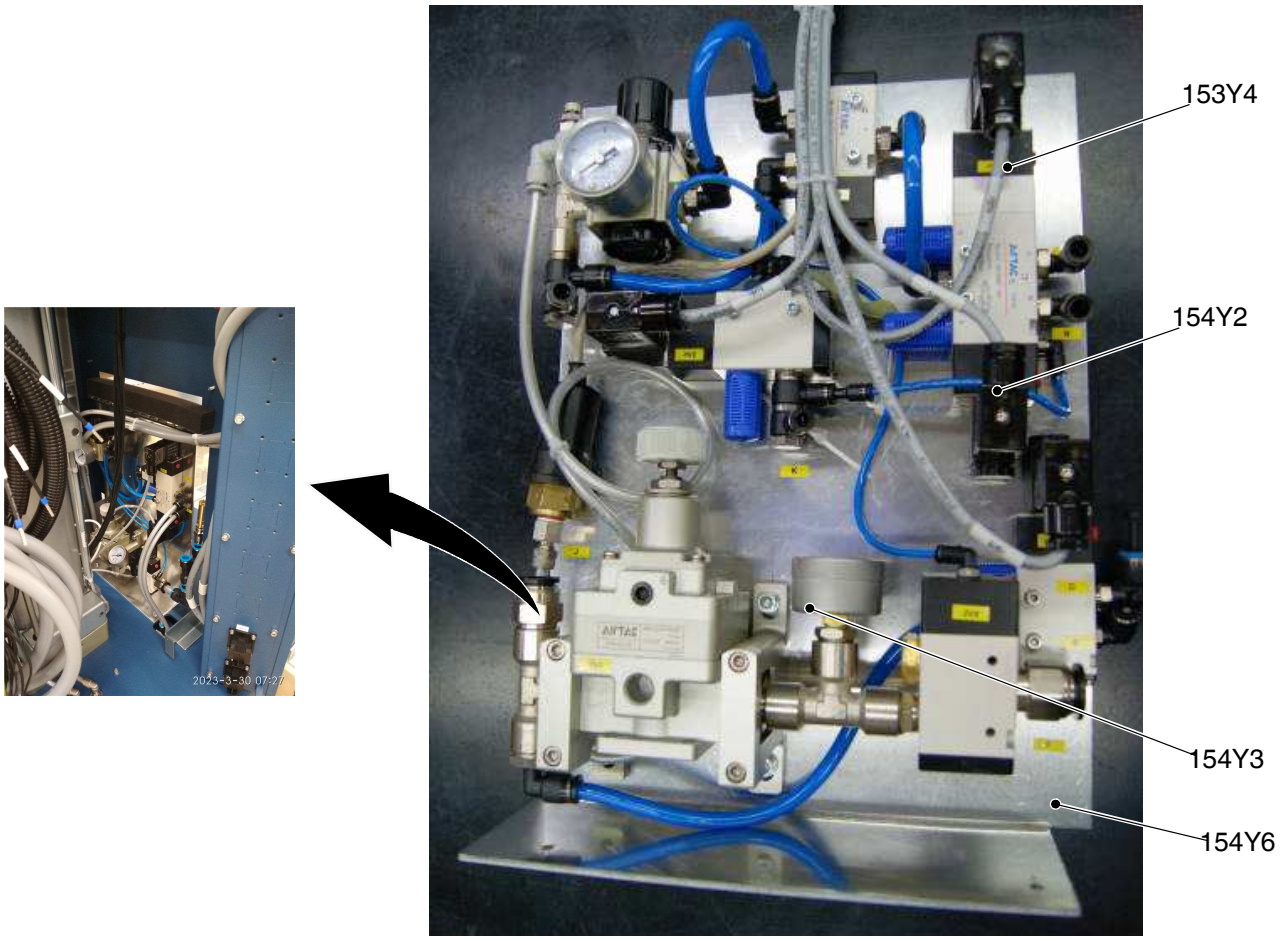


Fig. 37 Since 06/22

Item	Part	Description	Quantity	Note	Box	Code
1	7186637	Cable, pneumatic to XL50 VP/VD, Fe	1			
154Y6	2V2	• SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1	A		
154Y3	1V2	• SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1	B		
154Y2	1V6	• SOL VALVE 5/3ways VUVG-L18-24V-G1/4	1	C		
153Y4			1			

NOTE A: Order kit 7186640 for replacement. See below.
D: Order kit 7186641 for replacement. See below.
E: Order kit 7186639 for replacement. See below.

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Service Kit Valve 2V4,2V2,Fe

NOTE: Only for pneumatic panel since 06/2015 (Fig. 36).

Item	Part	Description	Quantity
-	7186640	**Kit-SVC valve2V4,2V2 pneumatic VP/VD,Fe**	
1	------	• SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1
2	------	• valve 3/2ways air operation G1/2	1
3	------	• sealing cord L=12m B=12mm	1
4	------	• IN-UNIVERSAL KIT PACKAGE INSERT	1

Service Kit Valve1V5,1V2 pneumatic VP/VD,Fe

NOTE: Only for pneumatic panel since 06/2015 (Fig. 36).

Item	Part	Description	Quantity
-	7186641	**Kit-SVC valve1V5,1V2 pneumatic VP/VD,Fe**	
1	------	• SOL VALVE 3/2ways VUVG-L10-24V-Q4	1
2	------	• Pneumatic valve 3/2ways VL/0-3-1/4	1
3	------	• Sealing cord L=12m B=12mm	1
4	------	• IN-UNIVERSAL KIT PACKAGE INSERT	1

Service Kit valve 1V6, pneumatic plate, Fe

NOTE: Only for pneumatic panel since 06/2015 (Fig. 36).

Item	Part	Description	Quantity
-	7186639	**Kit-SVC valve 1V6, pneumatic plate, Fe**	
1	------	• SOL VALVE 5/3ways VUVG-L18-24V-G1/4	1
2	------	• sealing cord L=12m B=12mm	1
3	------	• IN-UNIVERSAL KIT PACKAGE INSERT	1

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Position Switches, Configurable Items

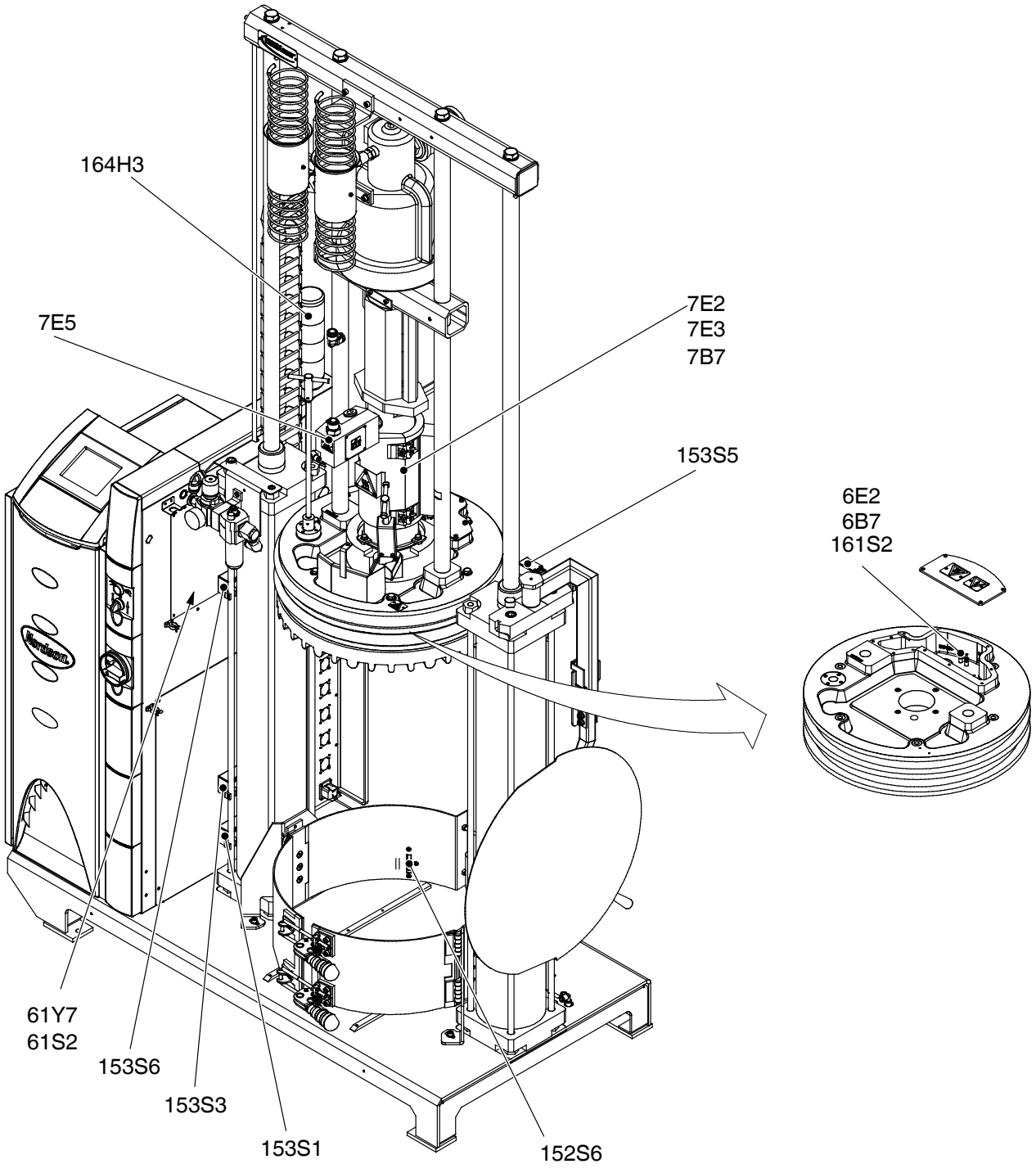


Fig. 38

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Item	Part	Description	Quantity	Note	Box	Code
152S6	7140289	Position switch, roller lever IP66	1			
153S1 153S3 153S6	7140289 7140289 7140289	Position switch, roller lever IP66	1 1 1	Empty Low Top edge		
6B7	120167	RTD,TEMP SENSOR 1/4X1.25NICKEL	1	Platen		
161S2	7126360	THERMOSTAT 180° C,24V,1A,FASTON 90°	1	Platen	12	L
	7126361	THERMOSTAT 210° C,24V,1A,FASTON 90°	1			M
	7126362	THERMOSTAT 260° C,24V,1A,FASTON 90°	1			H
6E2 6E2 6E2	------ ------ ------	Cast-in heater *Platen*		Platen		
7E2 7E3	7140463	Thinband heater VP/VD PP	2			
7B7	112374	SENSOR,TEMP.RTD,60IN. LEADS	1			
7E5	250682	Heater cartridge 3/8”x2” 230V-200W	1	Manifold		
153S5	7140289	Position switch, roller lever IP66	1			
61Y7	7140272	Solenoid valve 3/2ways 24V/1,5W G3/8	1			
61S2	7140276	Pressure switch 4,7bar G1/4	1	A, a	10	A
	7140275	Pressure switch 2,4bar G1/4	1		10	B
164H3	394794	Light tower	1	page 65	20	W

NOTE A: Since approx. year of production march 2011, hose manifold temperature is controlled by a separate temperatur channel. This causes the following changes:

a: Obsoleted. Instead, 7157344 is used. See fig. 21, Pos. 7.

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Interfaces and Hose Receptacles

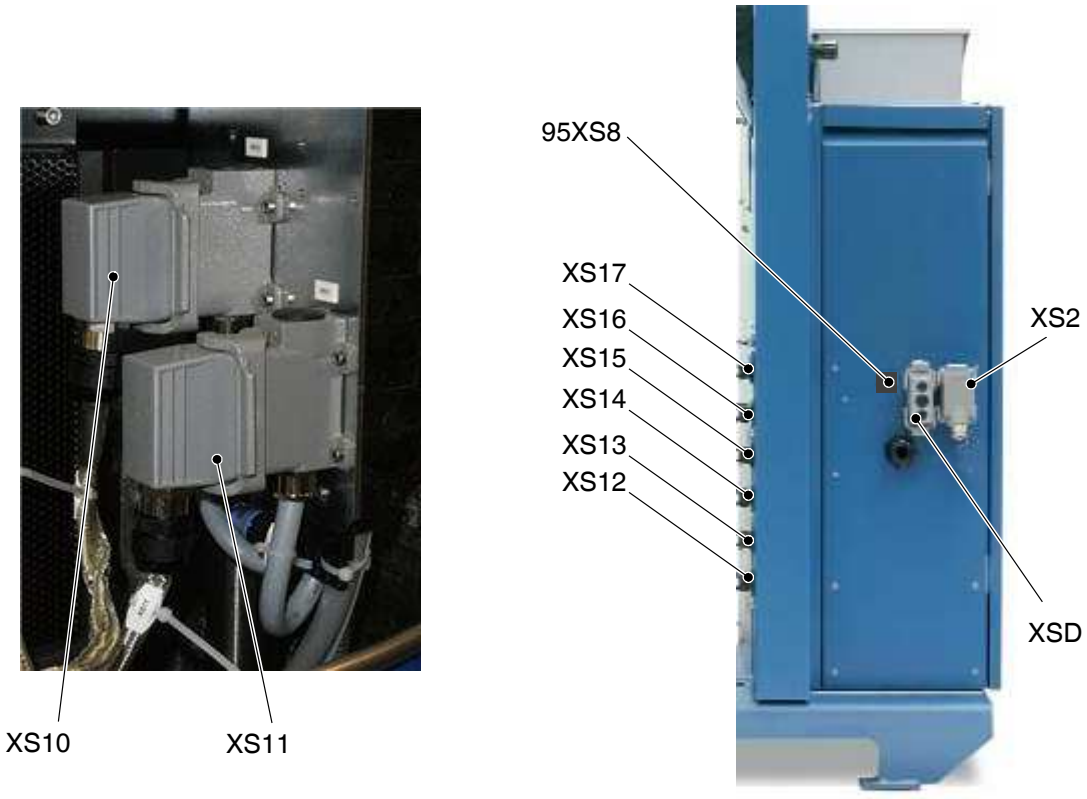


Fig. 39

Item	Part	Description	Quantity	Note	Box	Code
XS10	------	Hose Receptacle	1		11	2,4,6,8
XS11	------	Hose Receptacle	1		11	2,4,6,8
XS12	------	Hose Receptacle	1		11	4,6,8
XS13			1		11	4,6,8
XS14			1		11	6,8
XS15			1		11	6,8
XS16			1		11	8
XS17			1		11	8
XS2	------	Interface *Standard I/O*	1			
95XS8	------	Interface *Change-Over*	1	Accessory		

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Accessory Kits

Kit-ACC Light Tower (Until October 2014)

Item	Part	Description	Note	Quantity	Box	Code
-164H4	394794	Kit-ACC Light tower	A	1	20	W
	788608	• LED Perm. light element clear 24V / 30mA		1		
	788606	• LED Perm. light element green 24V / 30mA		1		
	788607	• LED Perm. light element yellow 24V /30mA		1		
	788605	• LED Perm. light element red 24V / 30mA		1		
NOTE A: This kit contains the complete (old) light tower. The kit P/N does not change after October 2014. However, old and new light elements may not be mixed.						

Kit-ACC Light Tower (Beginning November 2014)

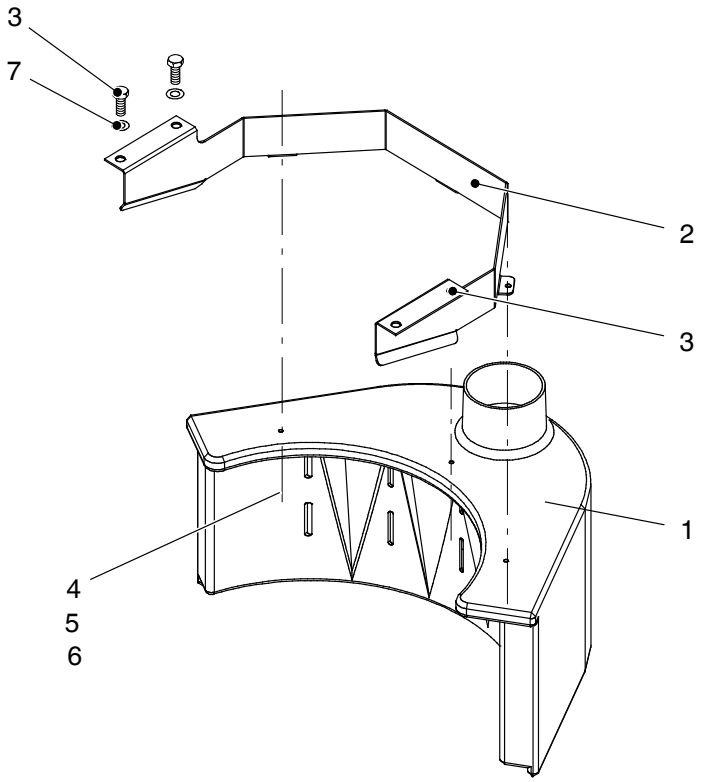
Item	Part	Description	Note	Quantity	Box	Code
-164H4	394794	Kit-ACC Light tower	A	1	20	W
	------	• LED Perm. light element clear 24V / 30mA	B	1		
	------	• LED Perm. light element green 24V / 30mA	B	1		
	------	• LED Perm. light element yellow 24V /30mA	B	1		
	------	• LED Perm. light element red 24V / 30mA	B	1		
NOTE A: This kit contains the complete (new) light tower. Old and new light elements may not be mixed. B: To order LED refer to *Kit New Light Tower LED*						

Kit New Light Tower LED

Item	Part	Description	Note	Quantity	Box	Code
-	6082736	KIT-SVC LED ALL COLOURS LIGHT TOWER KS71		1	20	W
-	------	• LED perm. light element clear typ KS 71		1		
-	------	• LED perm. light element green typ KS 71		1		
-	------	• LED perm. light element yellow typ KS 71		1		
-	------	• LED perm. light element red typ KS 71		1		

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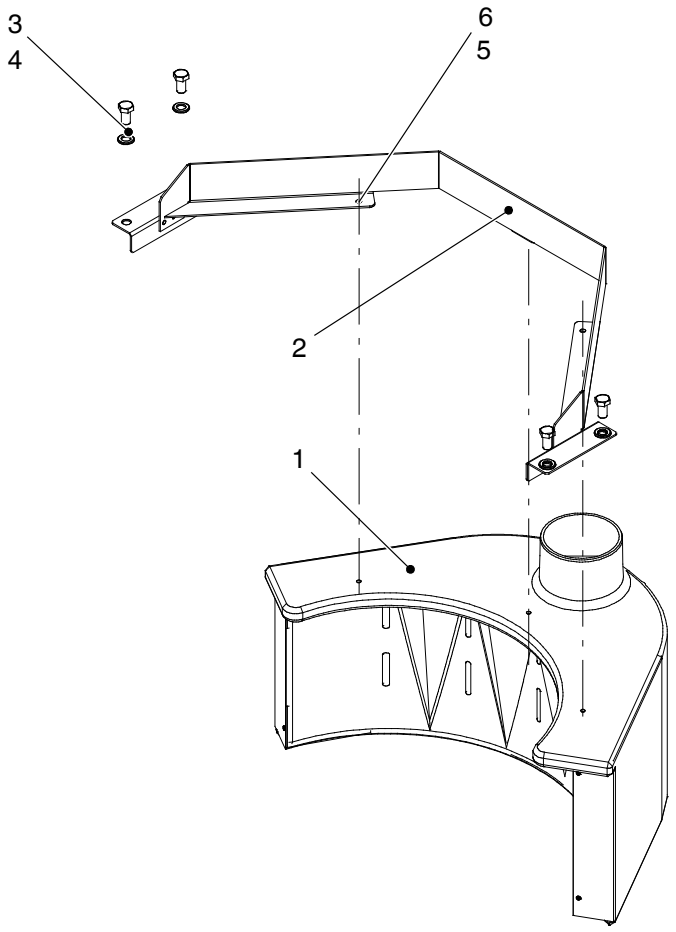
Exhaust Hood



Item	Part	Description	Quantity	Note	Box	Code
-	7140345	**KIT Exhaust hood**	1	A	26	X
1	7140904	• Container exhaust hood	1			
2	------	• Bracket exhausthood VD	1			
3	------	• Hexagon head screw M16x30 DIN933 8.8	4			
7	------	• Washer D17 DIN125 type B	4			
4	------ ------	• Allan head cap screw M6x20 DIN912 SST • Allan head cap screw M6x16 DIN912 SST	(3) 3			
5	------	• Washer D6,4 DIN9021 type B	(6) / 3			
6	------	• Hexagon nut M6 DIN934 SST	(3) / 0			
NOTE A: Not in combination with Rear Fence						

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Exhaust Hood - Pallet Load Frame



Item	Part	Description	Quantity	Note	Box	Code
-	7140926	**KIT Exhaust hood**	1	A	26	W
1	460759	• Container exhaust hood	1			
2	------	• Bracket, support	1			
3	------	• Hexagon head screw M16x30 DIN933 8.8	4			
4	------	• Washer D17 DIN125 type B	4			
5	------	• Allan head cap screw M6x16 DIN912	3			
6	------	• Washer D6,4 DIN9021 type B	3			
NOTE A: Not in combination with Rear Fence						

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Mechanical Platen Stop



Item	Part	Description	Quantity	Note	Box	Code
-	7140350	**KIT Mechanical platen stop**	1			
-	------	• Mechanical platen stop VD complete	1			

Drum Loading Ramp

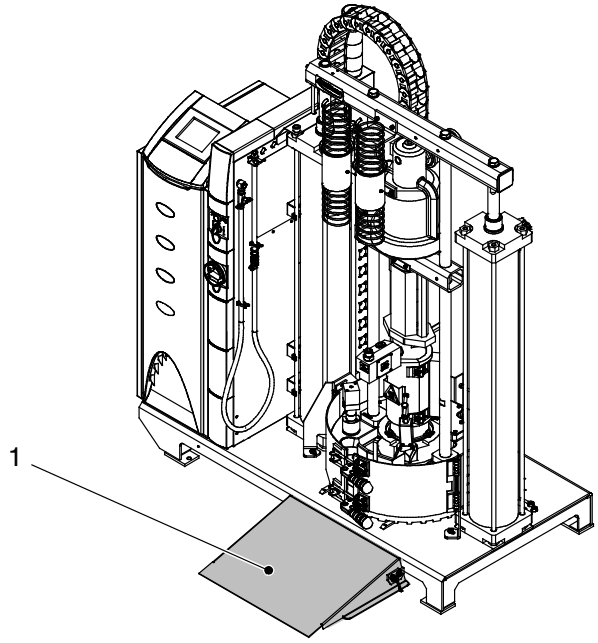
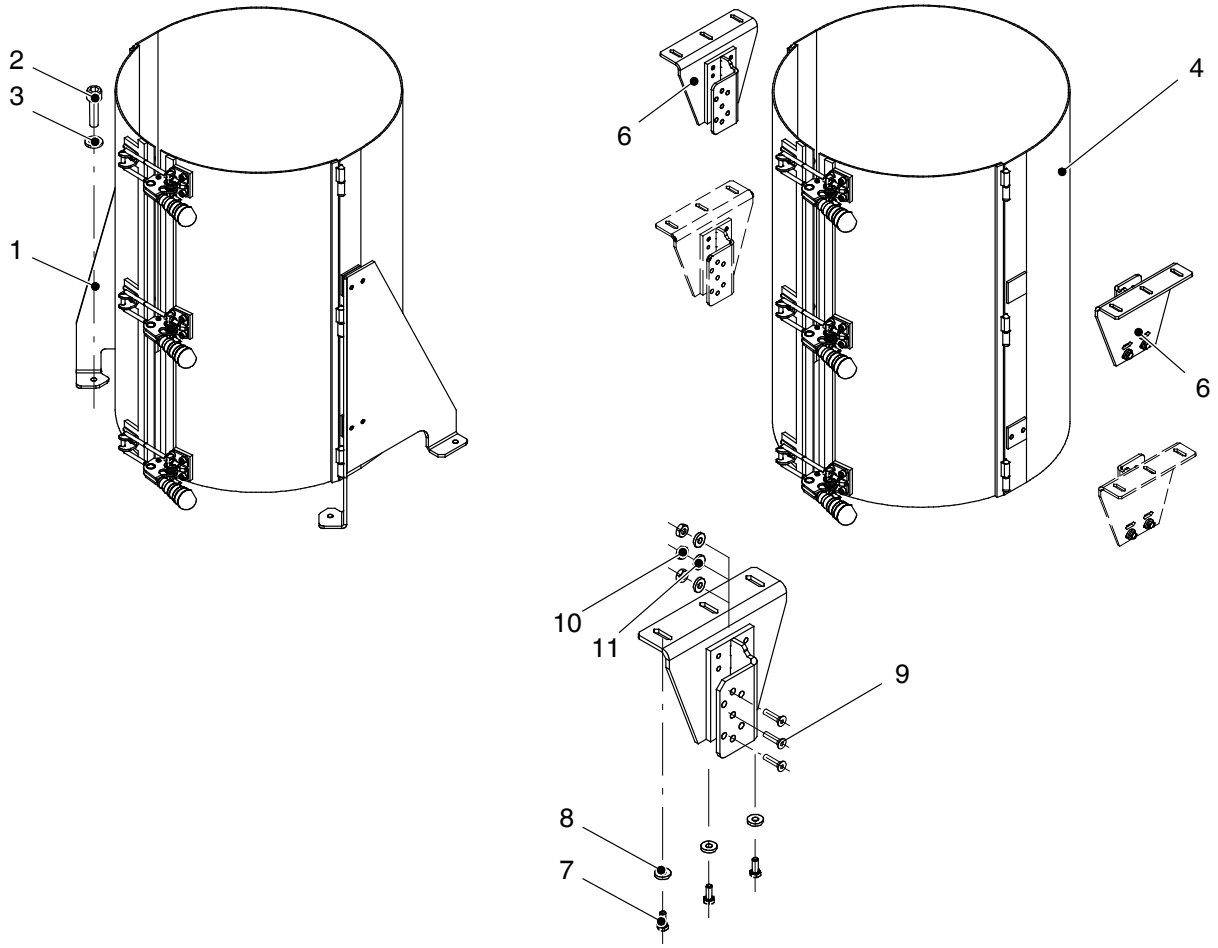


Fig. 40

Item	Part	Description	Quantity	Note	Box	Code
-	7140344	**KIT Drum loading ramp**	1			
1	------	• Ramp for drum VD	1			

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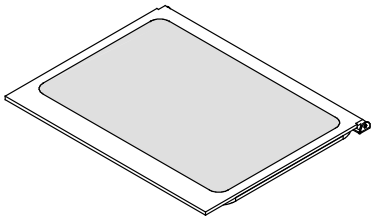
Fiber Drum Jacket



Item	Part	Description	Quantity	Note	Box	Code
-	7140349	**KIT Fiber drum jacket**	1		16 26	F X
1	------	• Drum clamp VD/DD D567/571 H795	1			
2	------	• Allan head cap screw M8x16 DIN912 SST	4			
3	------	• Washer D8,4 DIN9021	4			
-	------	**KIT Fiber drum jacket** *Pallet Load Frame*	1		16 26	F W
4	7140830	• Clamp	1			
6	7140834	• Bracket	2	A		
7	291034	• Hexagon head screw M8x20 DIN933 SST	6			
8	396026	• Washer D8,4 DIN6340	6			
9	433170	• Flat head screw M8x35 DIN7991	6			
10	444960	• Hexagon nut M8 DIN934	6			
11	256853	• Washer D8,4 DIN125 type B SST	6			
NOTE A: Use the two existing brackets of drum clamp H220 in addition						

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Cover, IPC Display



Item	Part	Description	Quantity	Note	Box	Code
-	7109694	Plexi glass cover IPC display	1			

Change Over

Item	Part	Description	Quantity	Note	Box	Code
-	7126906	**KIT, autom. changeover VP/VD**	1			
-	7140794	• Ethernet cable Crossover RJ45 15m	1			
-	------	• Cable patch	2			
-	------	• Socket housing	2			
-	------	• Allan head cap screw M3x10 DIN912	4			

Hose Fitting

Item	Part	Description	Quantity	Note	Box	Code
-	6082776	KIT-ACC HOSE FITTING K, M, -PP	-			
	------	HOSE CONNECT.FTG.A1 5/8	1			
	------	hose connect.ftg.a1 5/16 12N-a1 5/16 12N	1			
	------	WASHER D6	2			
	------	LOCKING DEVICE, HOSE FTG, SWXX	2			
	------	Hexagon head screw M6x16 DIN933	2			
	------	WASHER D6	2			

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Swing Arm

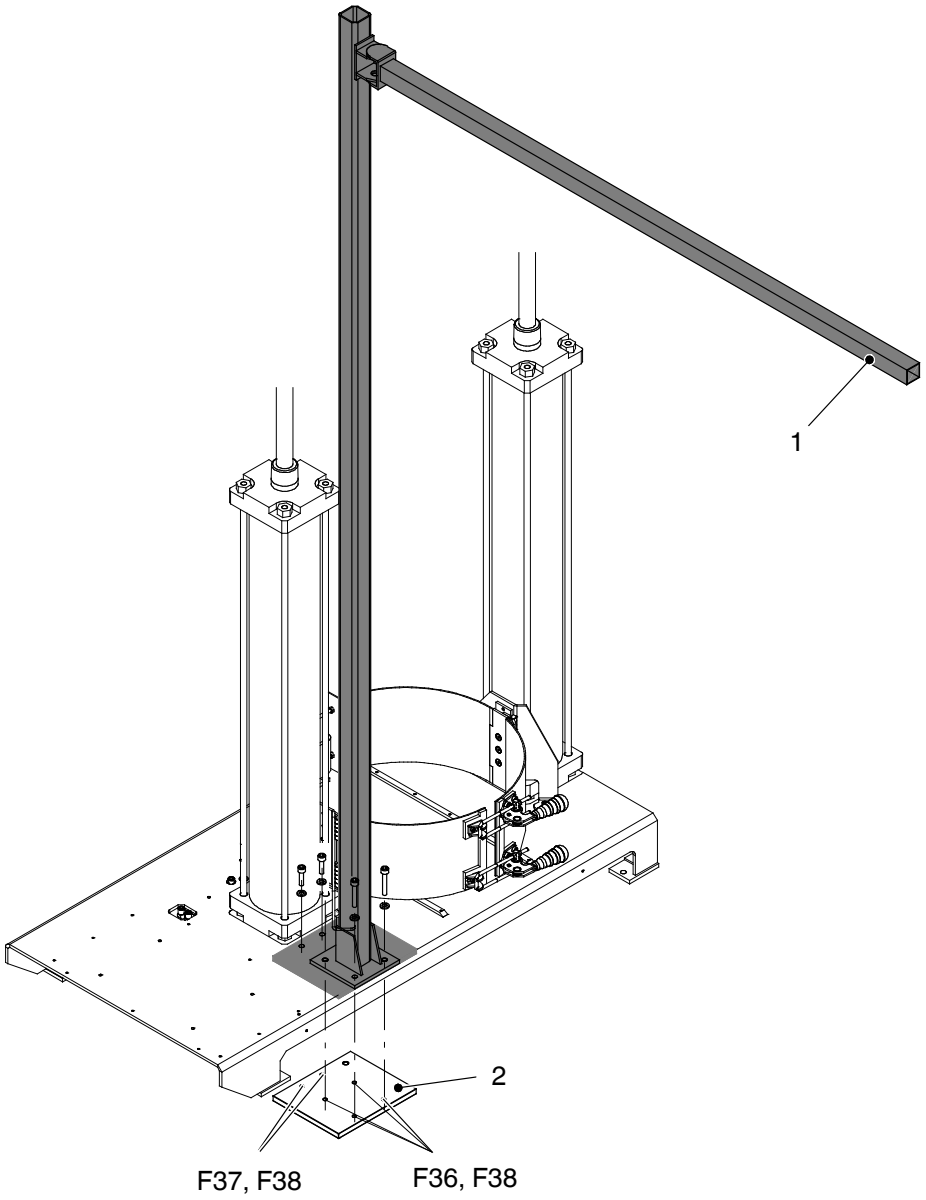


Fig. 41

Item	Part	Description	Quantity	Note	Box	Code
-	7155909	KIT Swing arm				
1	725471	• Swing arm, 6FT	1			
-	7155989	• KIT	1			
2	7140661	• • Plate	1			
F36	255048	• • Allan head cap screw M12x45 DIN912	4			
F37	7110103	• • Allan head cap screw M12x25 DIN912	2			
F38	254780	• • Washer D13 DIN125 A2	6			

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Retractable Drip Shield

Item	Part	Description	Quantity	Note	Box	Code
-	7157332	accessory-kit drip tray VD/DDgen2		A		
1	7157341	• rotary arm assy f.drip tray VD	1			
2	7140569	• drip tray VD VX	1			
3	252281	• cone handle,fixed D25 aM8x10 L90 GN203	1			
4	256853	• washer D8,4 DIN125 type B SST	5			
5	291035	• hexagon nut M8 DIN980 V	3			
6	256828	• allan head cap screw M8x55/10.9 DIN912	2			
7	413651	• edge protection 1010-02 black self-adh.	90 mm			
NS	280717	• cable tie TYP-23 M 2,5x100mm	4			
NS: Not Shown						
NOTE A: Not in combination with Pallet Load Frame						

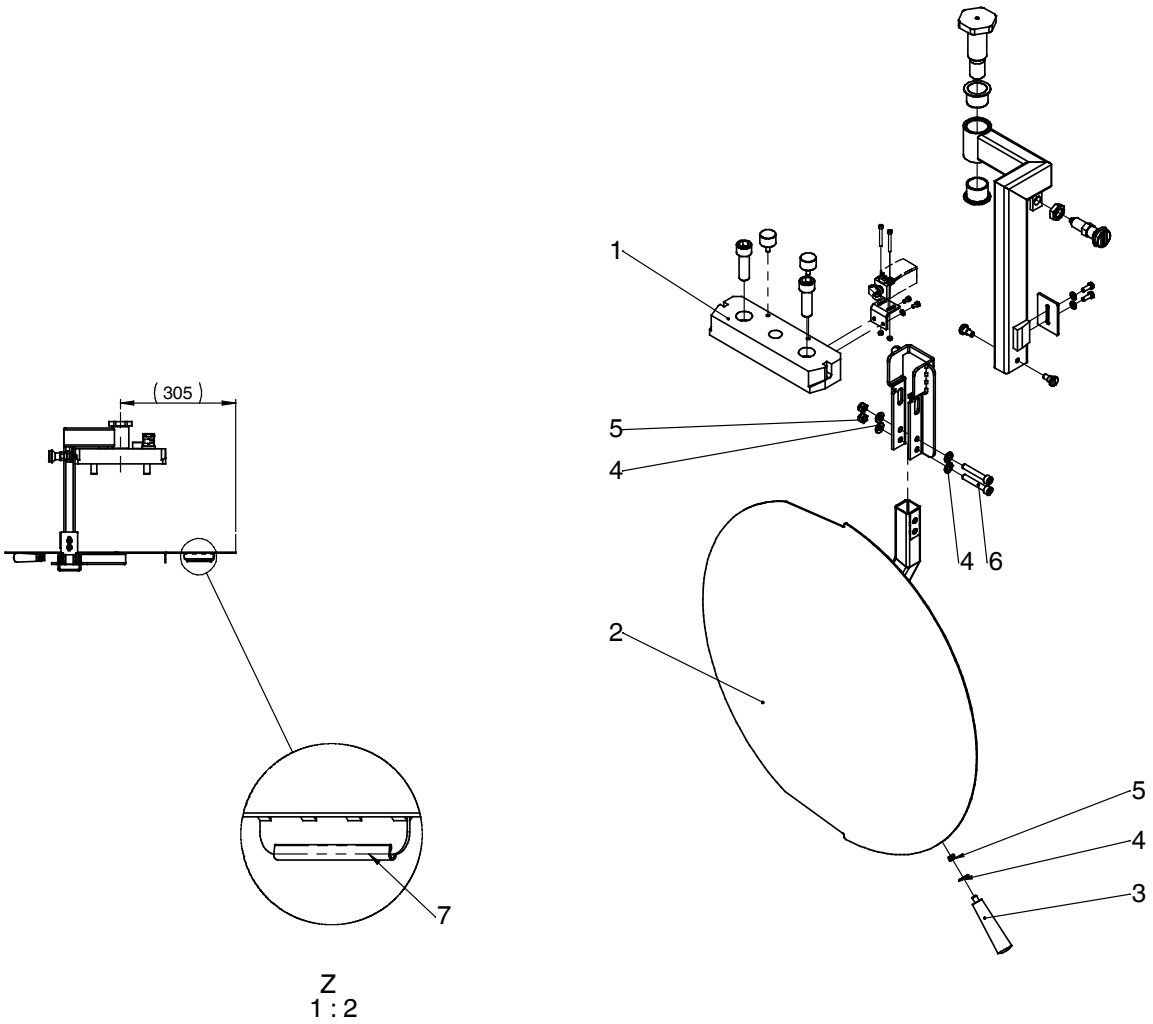


Fig. 42

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Service Kits

Kit-SVC valve2V4,2V2

Item	Part	Description	Quantity	Note
	7186634	SOL VALVE 5/2ways VUVG-L14-24V-G1/8	1	A
	418501	valve 3/2ways air operation G1/2	1	
	285127	sealing cord L=12m B=12mm	1	
	416820	folding box w/foamed material insert	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	
NOTE A: Order kit 7186640 for replacement.				

Item	Part	Description	Quantity	Note
	7186635	SOL VALVE 3/2ways VUVG-L10-24V-Q4	1	
	256764	pneumatic valve 3/2ways VL/0-3-1/4	1	
	285127	sealing cord L=12m B=12mm	1	
	416820	folding box w/foamed material insert	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

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Service Kits *(Forts.)*

Kit-SVC Adapterplate PP for pump P/N 464670



Fig. 43 Bell-shaped black air motor, until 09/2019

Item	Part	Description	Quantity	Note
	7186784	Kit-SVC Adapterplate PP		A
	------	Seal ,piston pump	1	
	------	O-ring 24x3 Viton	2	
	------	O-ring 100x3 Viton black	2	
	------	High-temp.grease GLS 595/N2 10g	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	
NOTE A: Order this kit for piston pump P/N 464670. See fig. 43				

Kit-SVC Heater Cartridge for manifold

Item	Part	Description	Quantity	Note
	7186890	Kit-SVC Heater Cartridge		A
	------	Heater cartridge 3/8"	2	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	
NOTE A: Order this kit for manifold P/N 7157343. See fig. 21.				

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Service Kits *(Forts.)*

Kit-SVC Filter for Silencer P/N 317941

Item	Part	Description	Quantity	Note
	7561885	Kit-SVC filter for silencer compl.		A
	------	High-performance filter silencer iG1	1	
	------	Hose connect.ftg.a1 1/16 12N-a3/4NPT	1	
	------	Screw plug G1 with o-ring	1	
	------	Hose connect.ftg.i1 1/16 12N-aG1 turning	1	
	------	Sealing cord L=12m B=12mm	1	
	7580479	IN-KIT 7561885 Filter Silencer, EN	1	
NOTE A: Order this kit for P/N 317941. See fig. 43				

Kit-SVC Adapterplate



Fig. 44 Silver-coloured, angled air motor, silver, P/N since 09/2019

Item	Part	Description	Quantity	Note
	7575932	Kit-SVC Adapterplate PP		A
	------	O-ring 100x3 Viton black	2	For VP
	------	O-ring 24 x 3 viton	2	For VD
	------	O-ring 78 x 3 viton	2	For VP/VD
	------	O-ring 88 x 3 viton	2	For VD
	------	High-temp.grease GLS 595/N2 10g	2	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

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Kit-SVC Heater Cartridge for manifold

Item	Part	Description	Quantity	Note
	7575933	Kit-SVC Heater Cartridge		A
	------	Heater cartridge 3/8"	2	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	
NOTE A: Order this kit for manifold P/N 7575780. See fig. 44				

Kit-SVC Filter for Silencer P/N 7561814

Item	Part	Description	Quantity	Note
	7575947	Kit-SVC filter silencer, Rhino		A
	------	High-performance filter silencer iG1	1	
	------	Sealing ring 33x39 DIN7603 form A	2	
	------	Screw plug G1 with o-ring	1	
NOTE A: Order this kit for silencer P/N 7561814. See fig. 44				

Kit-SVC Band-heater

Item	Part	Description	Quantity	Note
	7575948	Kit-SVC Band-heater oben, dia 2,75in		
	------	Band heater 2,75in x 2,75in, Rhino	1	
	------	Porcelain terminal 2pole 6,0mm^2	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

Kit-SVC Band-heater

Item	Part	Description	Quantity	Note
	7575949	Kit-SVC Band-heater unten, dia 3,5in		
	------	Band heater 3,5in x 2,25in, Rhino	1	
	------	Porcelain terminal 2pole 6,0mm^2	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

Kit-SVC Piston

Item	Part	Description	Quantity	Note
	7575950	Kit-SVC piston D46,53, PP		
	------	Piston D46,53 VD Rhino Pump	1	
	------	High-temp.grease GLS 595/N2 10g	1	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

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Kit-SVC Sealing

Item	Part	Description	Quantity	Note
	7575951	Kit-SVC Sealing, Tri-Lip, 1.375D, PP		
	------	SEAL,LIP,PEEK,1.375ID X 1.875OD X .438HT	3	
	------	O RING,-151,VITON,2.987ID,.103W,90 D	1	
	------	RING,SCRAPER,BRASS,1.375 ROD	1	
	------	SCREW,SKT,1/2-13X2.00LG,BL,FULL THD	2	
	------	Hexagon socket screw key SW3/8" No.42	1	
	------	High-temp.grease GLS 595/N2 10g	2	
	7146270	IN-UNIVERSAL KIT PACKAGE INSERT	1	

Kit-SVC temperature sensor

Item	Part	Description	Quantity	Note
	7186891	Kit-SVC temperature sensor, RTD Ni120 PP		
	------	SENSOR,TEMP.RTD,90IN. LEADS	1	
	------	Allan head cap screw	1	
	------	Washer D4,3 DIN125 type A	1	
	------	COMPOUND,THERMAL,NTE303,1 GRAM	1	
	------	SCR,PAN,6-31X.187,STL,ZN	1	

Kit-SVC O-ring, deaeration

Item	Part	Description	Quantity	Note
	7186885	Kit-SVC O-ring, deaeration		
	------	O-RING 22X2, 5	10	
	------	High-temp.grease GLS 595/N2 10g	1	

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Kit-SVC safety valve 6,8 bar

Item	Part	Description	Quantity	Note
	7186893	Kit-SVC safety valve 6,8 bar		
	------	Safety valve 6,8 bar	1	
	------	sealing ring R1/4	1	

Kit-SVC safety valve 4 bar

Item	Part	Description	Quantity	Note
	7186894	Kit-SVC safety valve 4 bar		
	------	Safety valve 4 bar	1	
	------	sealing ring R1/4	1	

Kit-SVC filter element

Item	Part	Description	Quantity
	7561891	Kit-SVC filter element	
	------	Filter element	1

Kit-SVC sealing kit packed gland PTFE

Item	Part	Description	Quantity
-	7561946	**Kit-SVC sealing kit packed gland PTFE**	
1	------	• GLAND,PACKING	1
2	------	• OIL,VITALIZER,1 PINT	1
3	------	• IN-KIT-SVC	1

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Schedule of Fasteners

Number	Description	Part
F1	Allan head cap screw M4x30 DIN912 SST	250015
F2	Allan head cap screw M6x16 DIN912 SST	250027
F2b	Hexagon head screw M6x16 DIN933 SST	291386
F3	Hexagon nut M10 DIN934 SST	259202
F4	Hexagon head screw M8x80 DIN931 SST	7140454
F5	Washer D8,4 DIN125 type B SST	256853
F6	Allan head cap screw M4x10 DIN912-A2-70	250073
F7	Washer D4,3 DIN125 type A	250092
F8	Allan head cap screw M5x12 DIN912 SST	250019
F9	Allan head cap screw M5x60 DIN912 A2/70	206089
F10	Hexagon head screw M6x40 DIN933	318003
F11	Allan head cap screw M5x30 DIN912 SST	250023
F12	Washer D10,5 DIN125	251375
F13	Hexagon head screw M6x12 DIN933 SST	416906
F14	Allan head cap screw M6x30 DIN912 SST	261613
F15	Allan head cap screw M5x70 DIN912 A2/70	290543
F16	Washer D5,3 DIN9021 type B	314165
F17	Hexagon nut M5 DIN934	254713
F18	Hexagon head screw M8x100 DIN931	280546
F19	Allan head cap screw M3x30 DIN912 SST	250006
F20	Allan head cap screw M16x40 DIN912 SST	280547
F21	Hexagon head screw M10x130/8.8 DIN931	785547
F22	Allan head cap screw M5x10 DIN912 SST	259432
F23	Washer D5,3 DIN125 type A	255264
F24	Allan head cap screw M5x25 DIN912 SST	254680
F25	Allan head cap screw M5x40 DIN912 SST	250025
F26	Washer D6,4 DIN9021 type B	250099
F27	Allan head cap screw M8x16 DIN912 SST	290317
F28	Washer D8,4 DIN9021	405479
F29	Hexagon head screw M8x35 DIN931 SST	429956
F30	Hexagon nut M4 DIN980	255301
F31	Allan head cap screw M6x20 DIN912	264523
F32	Washer D8,4 DIN6340	396026
F33	Flat head screw M8x35 DIN7991	433170
F34	Hexagon nut M8 DIN934	444960
F35	Hexagon head screw M8x20 DIN933 SST	291034
F36	Allan head cap screw M12x45 DIN912 SST	255048
F37	Allan head cap screw M12x25 DIN912 galZn	7110103
F38	Washer D13 DIN125 A2	254780
F39	Hexagon head screw M5x10 DIN933	203662

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