

HDLV® Pumpenkonsole als Einzelgerät – Encore®

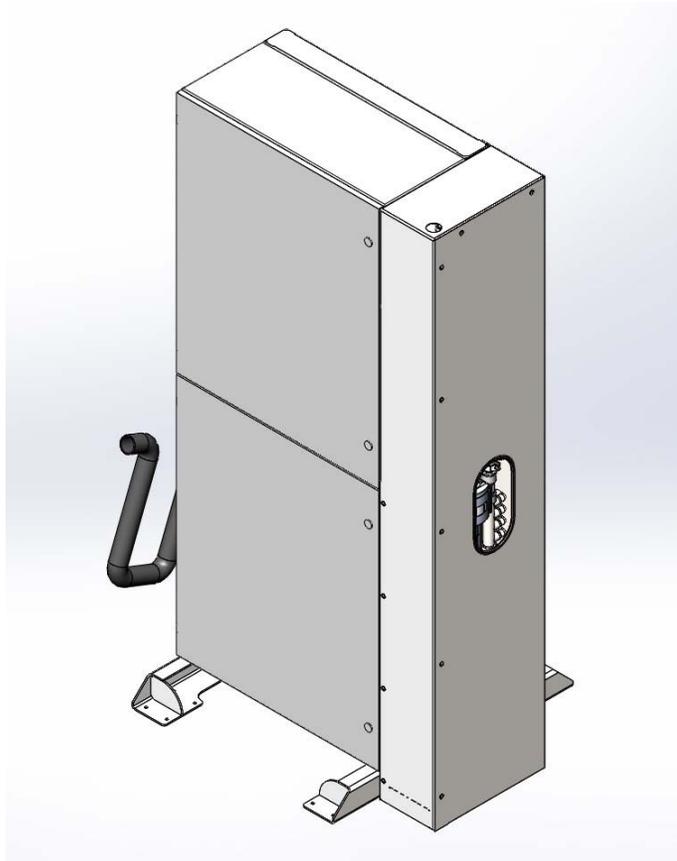


Abb. 1 HDLV Pumpenkonsole als Einzelgerät (Abbildung zeigt zwei Konsolen für acht Pumpen)

Die Pumpenkonsole ist das zentrale Elektrik- und Pneumatikgehäuse für HDLV® Pumpen zur Verwendung mit Encore® HD Automatik-Sprühpistolen. Die Pumpenkonsolen sind in zahlreichen Konfigurationen erhältlich: für vier, sechs und acht Pumpen, sodass jedes Gestell bis zu sechzehn Pumpen aufnehmen kann. Jede Konsole beinhaltet die HDLV Pumpen, Pumpenverteiler und Pumpensteuergeräte, Luftfilter und pneumatischen Steuerelemente und das DC-Netzteil.

Dieses Einzelgerät umfasst die HDLV Pumpenkonsole mit Luftbehälter zum Spülen der Pumpen, Pulverschläuche und Pistolen.

Installation

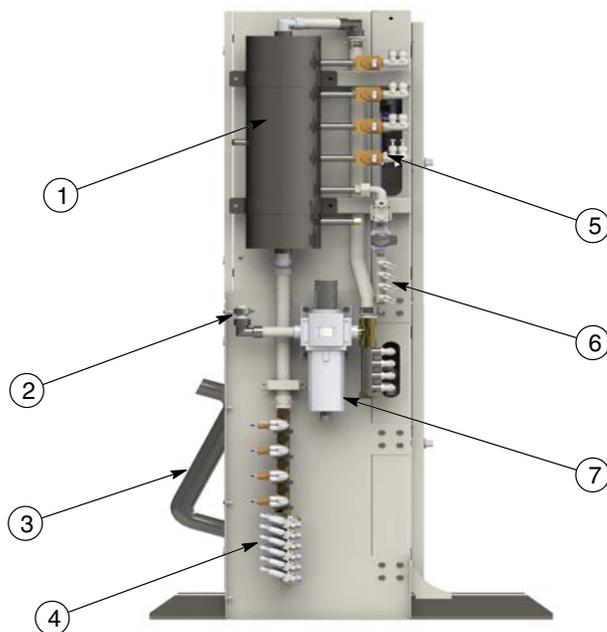


Abb. 2 Übersicht über die wichtigsten Pneumatikkomponenten

- | | | |
|-----------------|-----------------------------|------------------------------------|
| 1. Spüllufttank | 3. Pulverschlauchrohr | 5. Pumpenspülventile |
| 2. Lufteingang | 4. Zerstäuberreinigungsluft | 6. Versorgung
Elektrodenpülluft |
| | | 7. Filter- und Regeleinheit |

1. Das Gerät am gewünschten Ort positionieren und am Boden befestigen.
2. Eine 1"-Druckluftversorgung am Einlass der Filtereinheit anschließen (siehe Abbildung 2). Der Versorgungsdruck muss bei 6,5 bar (dynamisch) liegen.

HINWEIS: Die Pumpenkonsole werden gemäß den Anweisungen im Kapitel Installation der jeweiligen technischen Betriebsanleitung angeschlossen. Die Betriebsanleitungen stehen auf <http://emanuals.nordson.com/finishing/files/Powder/1102110> zum Herunterladen zur Verfügung.

Spülzyklus

Zum Aktivieren des Spülzyklus die entsprechende Schaltfläche an der Powder Pilot™ HD oder der iControl® 2 Konsole berühren.

HINWEIS: Der Spülzyklus sollte nur aktiviert werden, wenn in der Kabine keine Werkstücke und Bediener sind.

Fehlersuche

Diese Fehlersuchanleitungen betreffen nur die häufigsten Probleme. Wenn ein Problem mit den hier gebotenen Informationen nicht gelöst werden kann, wenden Sie sich an Ihre zuständige Vertretung von Nordson.

Problem	Mögliche Ursache	Abhilfe
1. Pistolen nach dem Spülen nicht sauber	Zu wenig oder kein Luftdruck am Einlass des Spüllufttanks	Auf Luftleckagen prüfen und 6,5 bar Druck (dynamisch) sicherstellen.
2. Pistolen/Pumpen werden nicht gespült	Am iControl oder an der Hauptsteuerung nicht aktiviert	Sicherstellen, dass iControl/Hauptsteuerung eingeschaltet und Gerät aktiviert ist.
	Kein Luftdruck am Spüllufttank.	Prüfen, ob der Kompressor richtig funktioniert und ob 6,5 bar Druck (dynamisch) verfügbar sind.
	Netz-/Steuerspannung ist aus.	Auf Luftleckagen prüfen und korrigieren.
	Kein Luftdruck am Spüllufttank.	Sicherstellen, dass die Netzspannung eingeschaltet ist.
	Netz-/Steuerspannung ist aus.	Sicherstellen, dass an der Pumpenkonsole Steuerspannung anliegt.

HINWEIS: Zu weiteren Informationen über Probleme mit der Pumpenkonsole sowie Wartung und Reparatur siehe Betriebsanleitung auf <http://emanuals.nordson.com/finishing/files/Powder/1102110>.

Ersatzteile

Zur Bestellung von Ersatzteilen wenden Sie sich bitte an das Nordson Finishing Kundendienstcenter unter +800 7001 7001 oder an Ihren Ansprechpartner bei Nordson.

Die Zahl in der Spalte „P/N“ ist die Nordson GmbH Teilenummer.

Die Spalte „Benennung“ enthält den Namen des Ersatzteils sowie Informationen zur jeweiligen Ausführung.

Buchstaben in der Spalte „Hinweis“ beziehen sich auf Hinweise am Ende jeder Ersatzteilliste. Die Hinweise können wichtige Informationen zu Verwendung und Bestellung enthalten. Hinweise sollten aufmerksam beachtet werden.

P/N	Benennung	Hinweis
7033180	STAND ALONE HDLV PUMP PANEL,4 PUMP,GEN3	A
7033181	STAND ALONE HDLV PUMP PANEL,6 PUMP,GEN3	A
7033182	STAND ALONE HDLV PUMP PANEL,8 PUMP,GEN3	A
7033183	STAND ALONE HDLV PUMP PANEL,10 PUMP,GEN3	A
7033184	STAND ALONE HDLV PUMP PANEL,12 PUMP,GEN3	A
7033185	STAND ALONE HDLV PUMP PANEL,14 PUMP,GEN3	A
7033186	STAND ALONE HDLV PUMP PANEL,16 PUMP,GEN3	A
HINWEIS	A: Zu Bedienung und Ersatzteilen für die Pumpenkonsolen siehe die Nordson emanuals Website http://emanuals.nordson.com/finishing/files/Powder/1102110 .	

4 HDLV® Pumpenkonsole als Einzelgerät

Maße

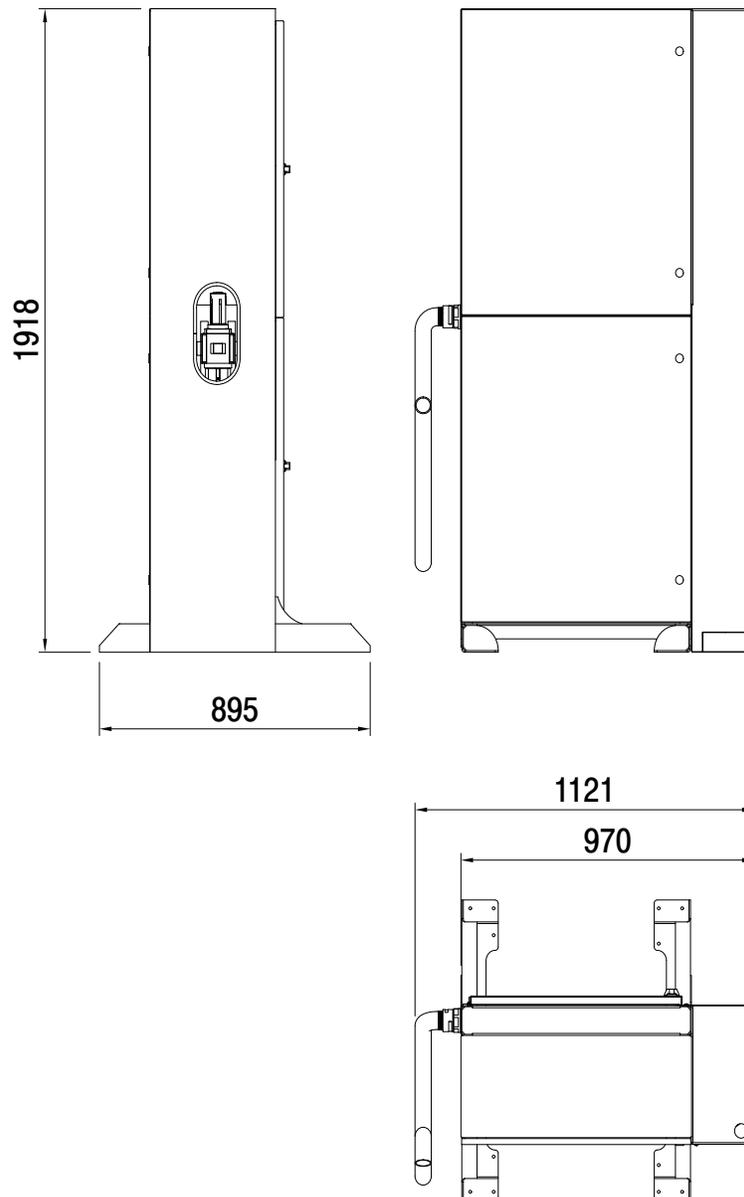


Abb. 3 Gesamtabmessungen

Hinweis

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Ausgabe 02/18

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① <http://www.nordson.com/en/global-directory>

Main Input
1"

HDLV Pump
Controller 1

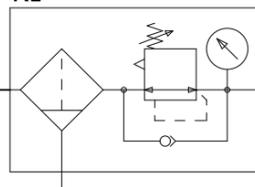
HDLV Pump
Controller 2

-V0

1"

0101

-R1



1"

2.2
A1.1

2.2
A1.2

2.6
A2.1

2.6
A2.2

0102

0103

0104

0105

16 mm

16 mm

16 mm

16 mm

1"

PN / 2.0

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Revision	06.02.2018

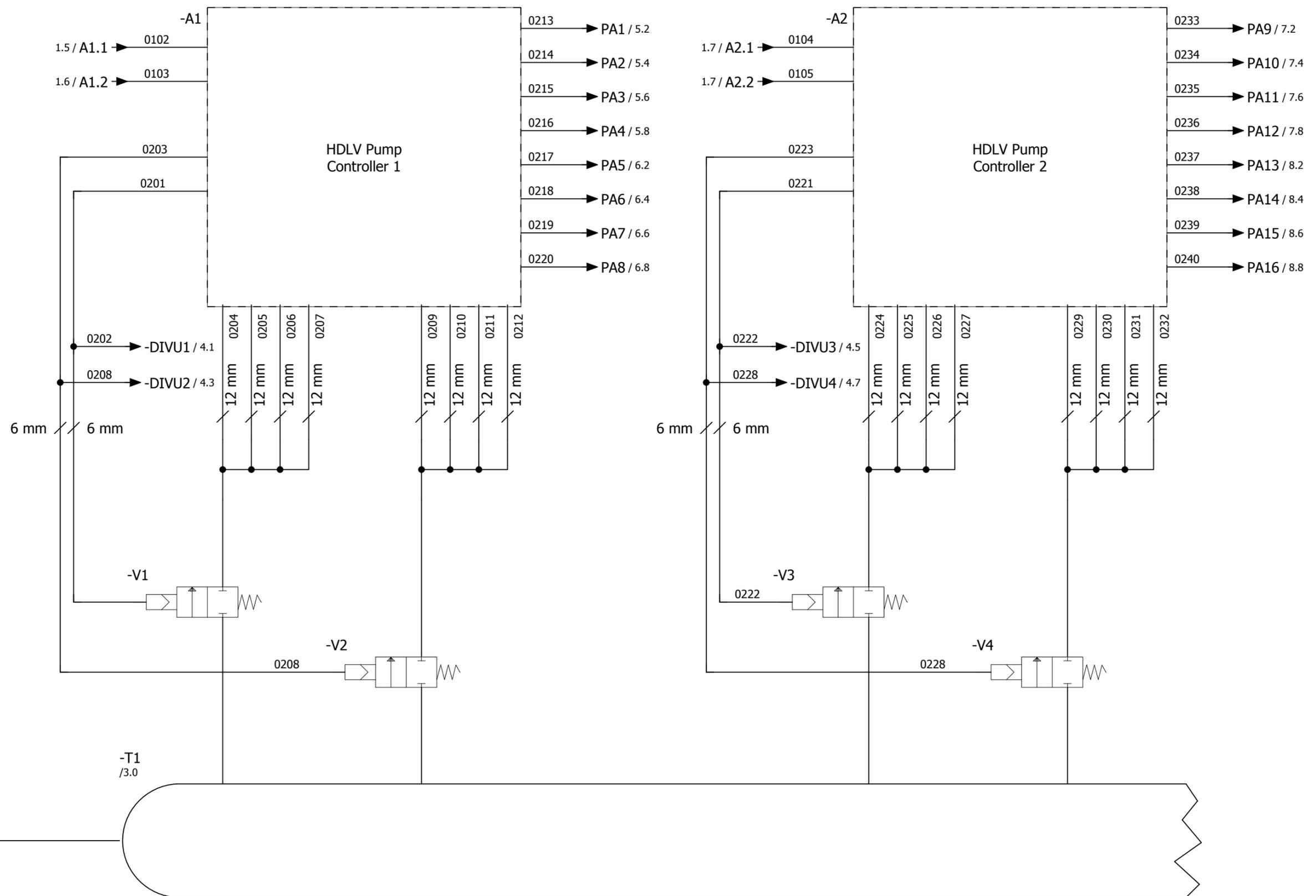
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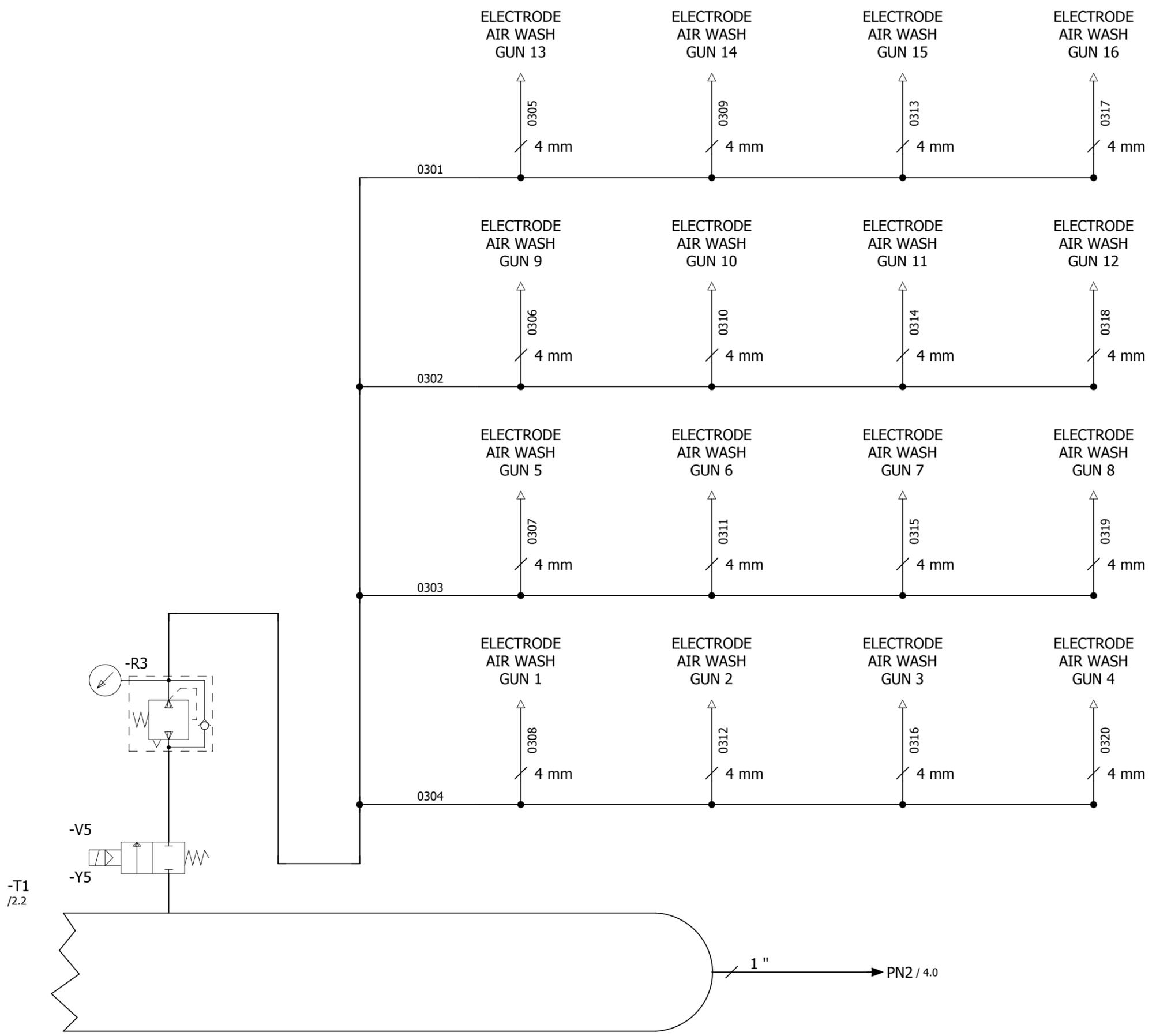


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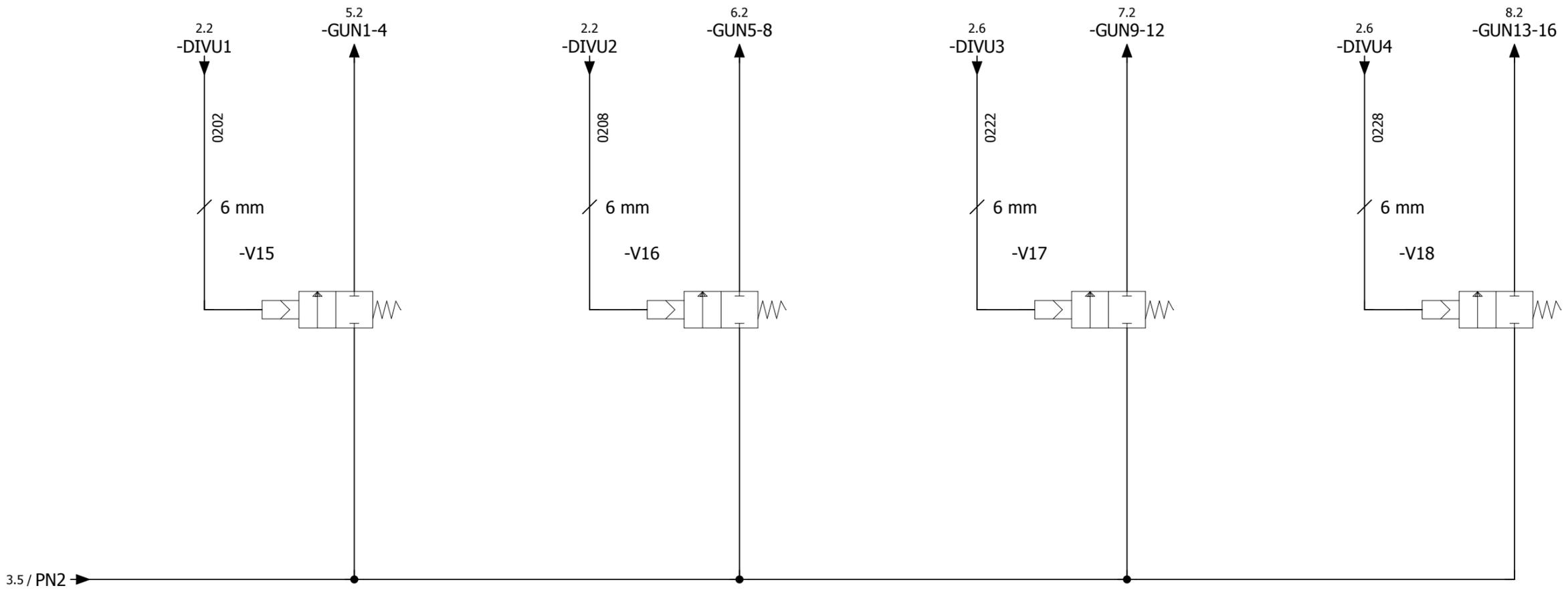
Description
PNEUMATIK CONNECTIONS

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		Editor	Zimmermann			PNEUMATIK CONNECTIONS		+ PN		HDLV Pneumatic	
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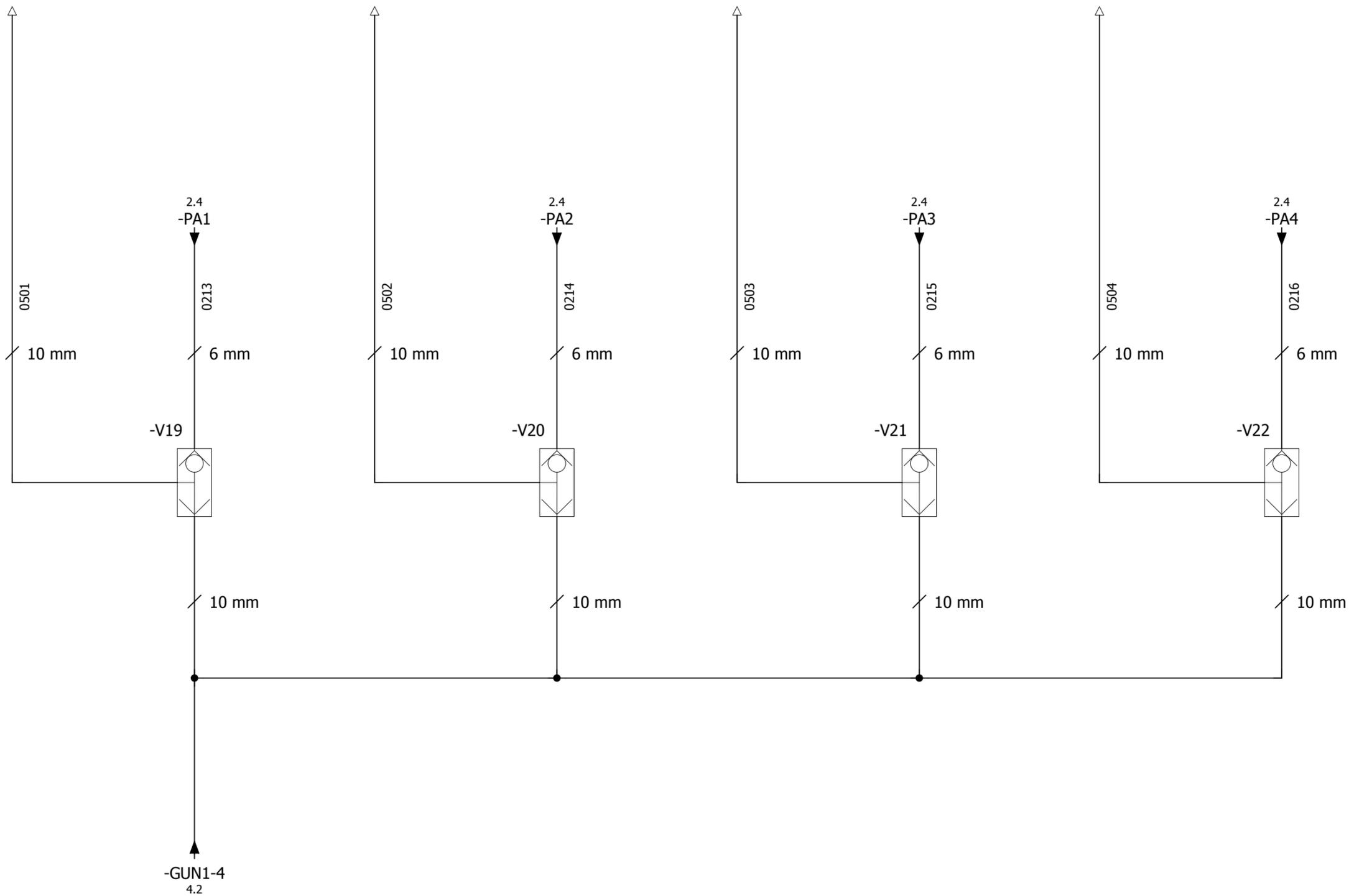


GUN 1

GUN 2

GUN 3

GUN 4



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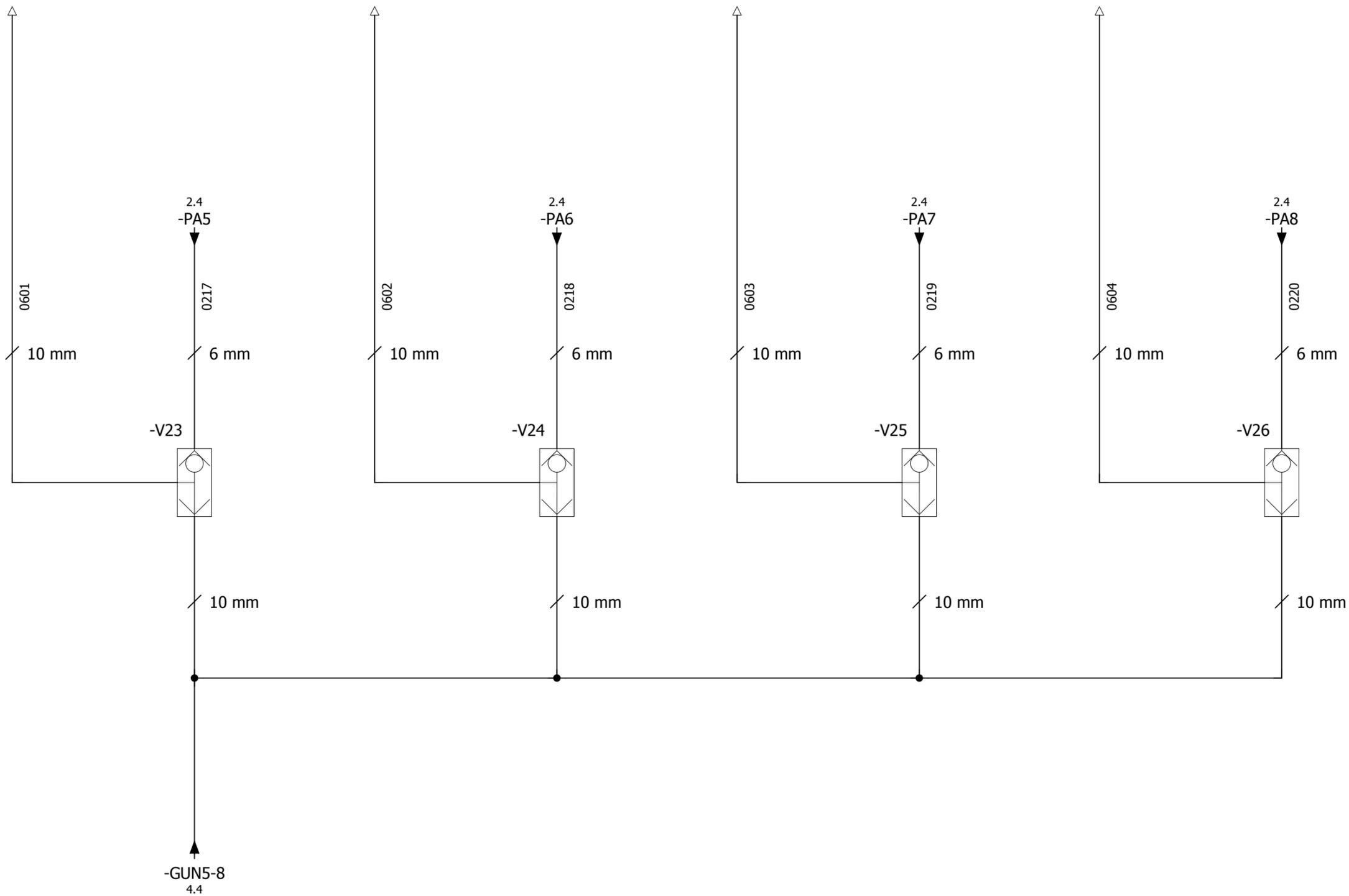
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GUN 8



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 PNEUMATIK CONNECTIONS

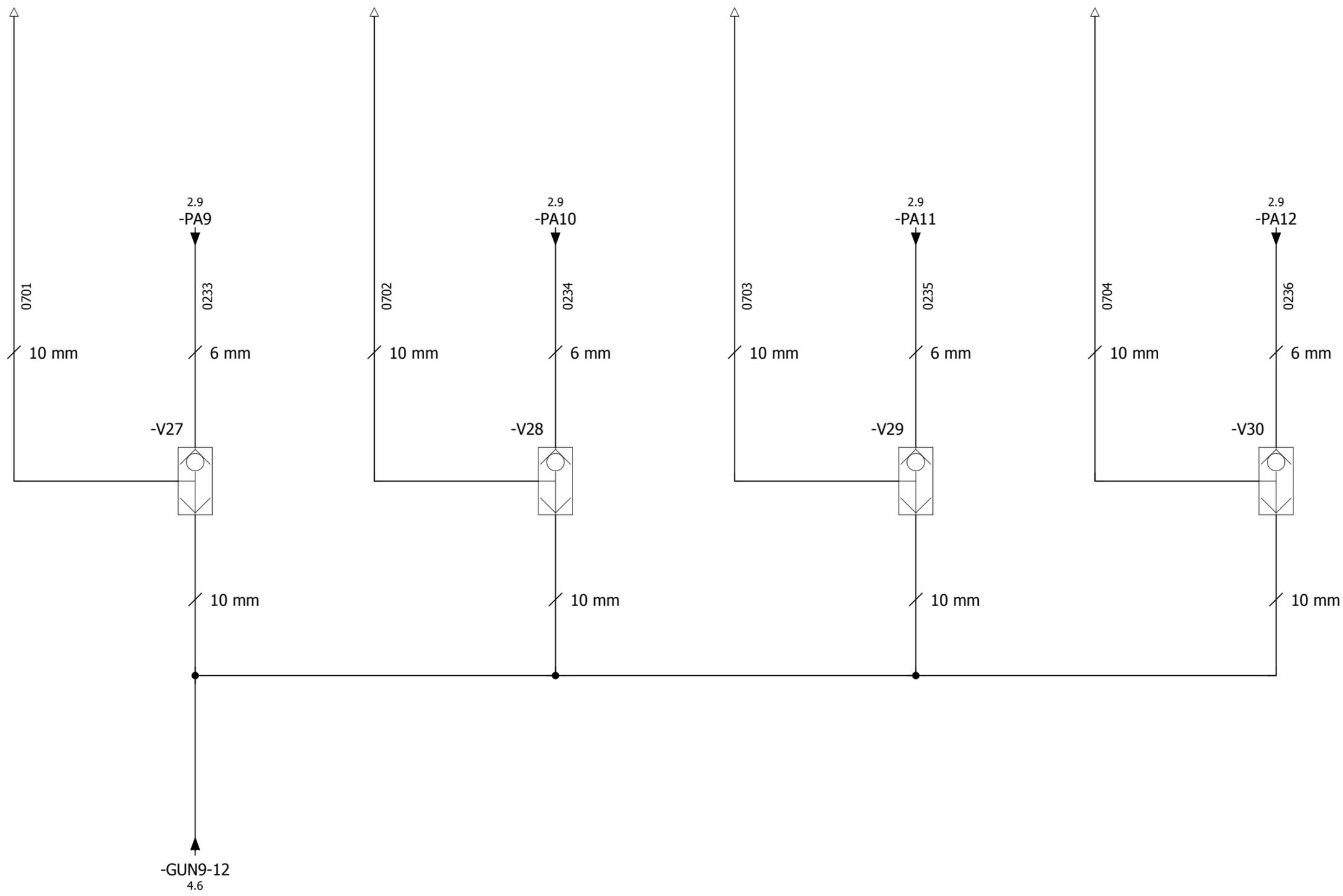
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GUN 11

GUN 12



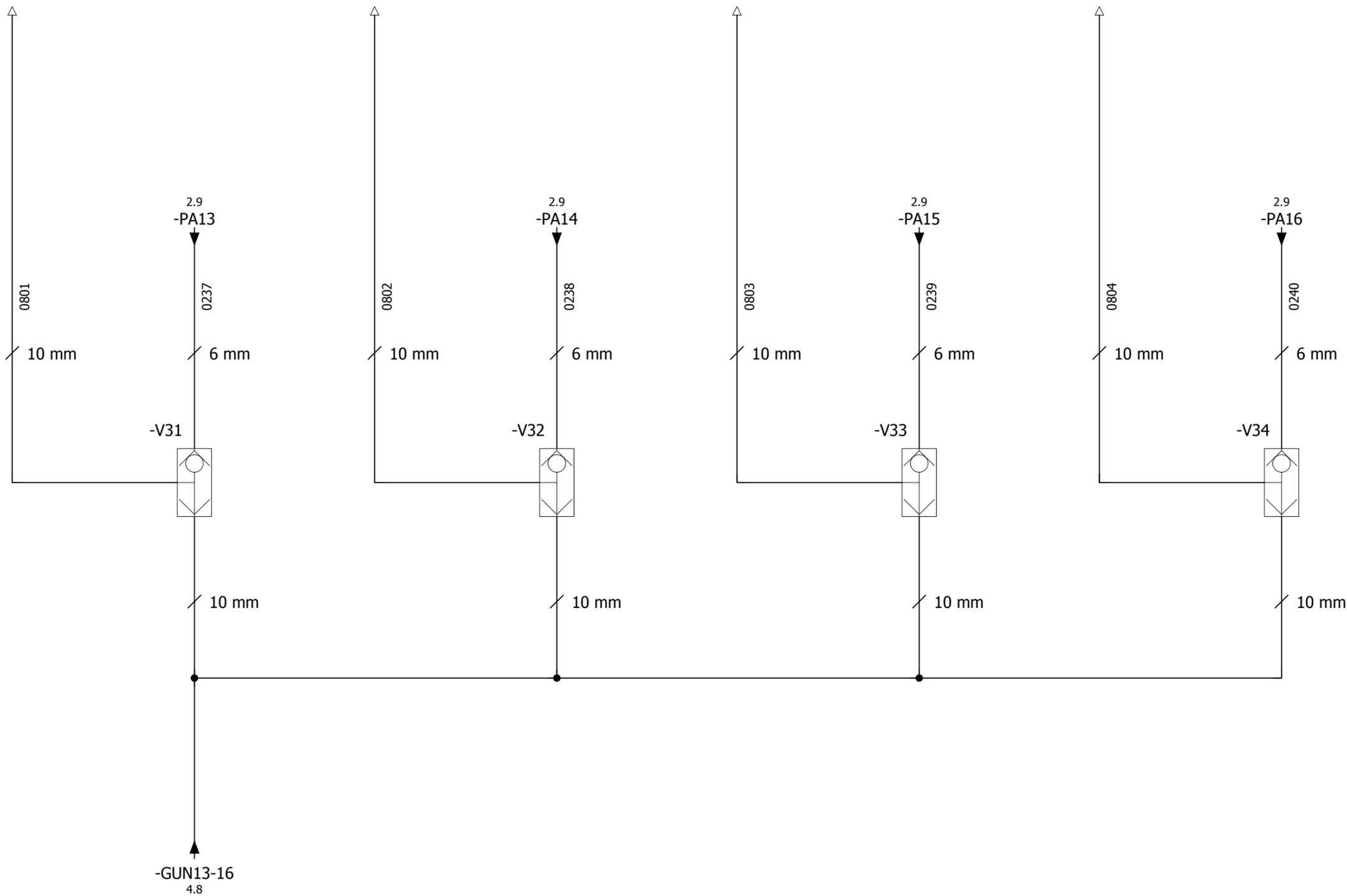
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		Editor	Zimmermann			PNEUMATIK CONNECTIONS		+ PN		HDLV Pneumatic	
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Description
 PNEUMATIK CONNECTIONS

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Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-A1	8	Y Quick conector 12mm - 2x10mm	KQ2U10-12A	SMC.KQ2U10-12A	SMC Pneumatik GmbH
+PN-A2	8	Y Quick conector 12mm - 2x10mm	KQ2U10-12A	SMC.KQ2U10-12A	SMC Pneumatik GmbH
+PN-R1	1	Filter regulator unit MS9-LFR	MS9-LFR-AGF-D6-C-U-M-AG-BAR-AS-WPM	FESTO.MS9-LFR-AGF-D6-C-U-M-AG-BAR-AS-WPM	Festo AG & Co. KG
+PN-R1	2	Hose Tail 1"-25mm	GT 1025 MSV	JAEGER.GT 1025 MSV	Jaeger Pneumatic
+PN-R1	1	Tube 1" 100mm	RONI 10/100 ST	JAEGER.RONI 10/100 ST	Jaeger Pneumatic
+PN-R1	2	Tube Clamp	SSB 37 ES	JAEGER.SSB 37 ES	Jaeger Pneumatic
+PN-R1	1	T-Piece 1"	TE 10 MSV	JAEGER.TE 10 MSV	Jaeger Pneumatic
+PN-R1	1	Blind Cap 1"	VS 10 A MSV	JAEGER.VS 10 A MSV	Jaeger Pneumatic
+PN-R1	1	Manifold 1" - 4x 1/2"	VTI 104 MSV	JAEGER.VTI 104 MSV	Jaeger Pneumatic
+PN-R1	1	Elbow 1" 90°	W 10 MSV	JAEGER.W 10 MSV	Jaeger Pneumatic
+PN-R1	4	Push In Fitting Elbow 90° 1/2" to 16mm	KQ2L16-04AS	SMC.KQ2L16-04AS	SMC Pneumatik GmbH
+PN-R1	2	Blind Plug 16mm	KQ2P-16	SMC.KQ2P-16	SMC Pneumatik GmbH
+PN-R3	4	Multiple distributor	QSLV4-1/8-4	FESTO.QSLV4-1/8-4	Festo AG & Co. KG
+PN-R3	14	Blanking plug	QSC-4H	FESTO.QSC-4H	Festo AG & Co. KG
+PN-R3	1	Pressure regulator MS4-LR	MS4-LR-AGC-D5-Z	FESTO.MS4-LR-AGC-D5-Z	Festo AG & Co. KG
+PN-R3	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-R3	1	Distributor bar 2 x G 3/8"-4 x G 1/8"	RLE 43818 A	JAEGER.RLE 43818 A	Jaeger Pneumatic
+PN-R3	1	Blind Cap G 3/8"	VS 38 AMSV	JAEGER.VS 38 AMSV	Jaeger Pneumatic
+PN-T1	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-T1	1	Pipe clamp	GR 5337 LARPV	JAEGER.GR 5337 LARPV	Jaeger Pneumatic
+PN-T1	1	Hose Tail 1"-25mm	GT 1025 MSV	JAEGER.GT 1025 MSV	Jaeger Pneumatic
+PN-T1	2	Sleeve G 1"-G 1"	MU 10 MSV	JAEGER.MU 10 MSV	Jaeger Pneumatic
+PN-T1	1	Tube 1" 120mm	RONI 10/120 ST	JAEGER.RONI 10/120 ST	Jaeger Pneumatic
+PN-T1	2	Tube 1" 200mm	RONI 10/200 ST	JAEGER.RONI 10/200 ST	Jaeger Pneumatic
+PN-T1	1	Tube Clamp	SSB 37 ES	JAEGER.SSB 37 ES	Jaeger Pneumatic
+PN-T1	5	Blind Cap 1/2"	VK 12 MSV	JAEGER.VK 12 MSV	Jaeger Pneumatic
+PN-T1	1	Blind Cap 1"	VS 10 A MSV	JAEGER.VS 10 A MSV	Jaeger Pneumatic
+PN-T1	1	Blind Cap 1/4"	VS 14 A MSV	JAEGER.VS 14 A MSV	Jaeger Pneumatic
+PN-T1	4	Distributor pipe G 1", 2 outlets G 1/2"	VTA 102 MSV	JAEGER.VTA 102 MSV	Jaeger Pneumatic
+PN-T1	1	Elbow 1" 90°	W 10 MSV	JAEGER.W 10 MSV	Jaeger Pneumatic
+PN-T1	3	Elbow 1" 90°	WE 10 MSV	JAEGER.WE 10 MSV	Jaeger Pneumatic
+PN-T1	1	Elbow 1/2" 90°	WT 12 FES	JAEGER.WT 12 FES	Jaeger Pneumatic
+PN-T1	1	Airtank 6x 1/2"	DP14265R0X0P000A	TURBO.DP14265R0X0P000A	
+PN-V1	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V1	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V1	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V2	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V2	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG

+PN/8

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Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-V2	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V3	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V3	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V3	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V4	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V4	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V4	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V4	2	Blanking plug	QSC-12H	FESTO.QSC-12H	Festo AG & Co. KG
+PN-V5	1	Solenoid	MD-2-24VDC-PA	FESTO.MD-2-24VDC-PA	Festo AG & Co. KG
+PN-V5	1	Connecting plug for solenoid and valve	MSSD-N	FESTO.MSSD-N	Festo AG & Co. KG
+PN-V5	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-V15	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V15	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V15	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V15	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V16	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V16	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V16	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V16	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V17	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V17	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V17	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V17	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V18	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V18	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V18	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V18	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V18	2	Blanking plug	QSC-10H	FESTO.QSC-10H	Festo AG & Co. KG
+PN-V19	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V19	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V19	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V20	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V20	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V20	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V21	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V21	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V21	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V22	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG

Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-V22	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V22	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V23	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V23	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V23	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V24	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V24	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V24	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V25	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V25	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V25	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V26	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V26	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V26	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V27	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V27	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V27	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V28	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V28	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V28	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V29	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V29	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V29	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V30	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V30	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V30	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V31	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V31	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V31	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V32	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V32	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V32	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V33	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V33	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V33	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V34	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V34	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V34	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH

Main Input
1"

HDLV Pump
Controller 1

HDLV Pump
Controller 2

-V0

1"

0101

2.2
A1.1

2.2
A1.2

2.6
A2.1

2.6
A2.2

0102

0103

0104

0105

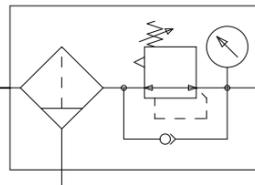
16 mm

16 mm

16 mm

16 mm

-R1



1"

1"

PN / 2.0

Date	18.01.2018
Editor	Zimmermann
Revision	06.02.2018

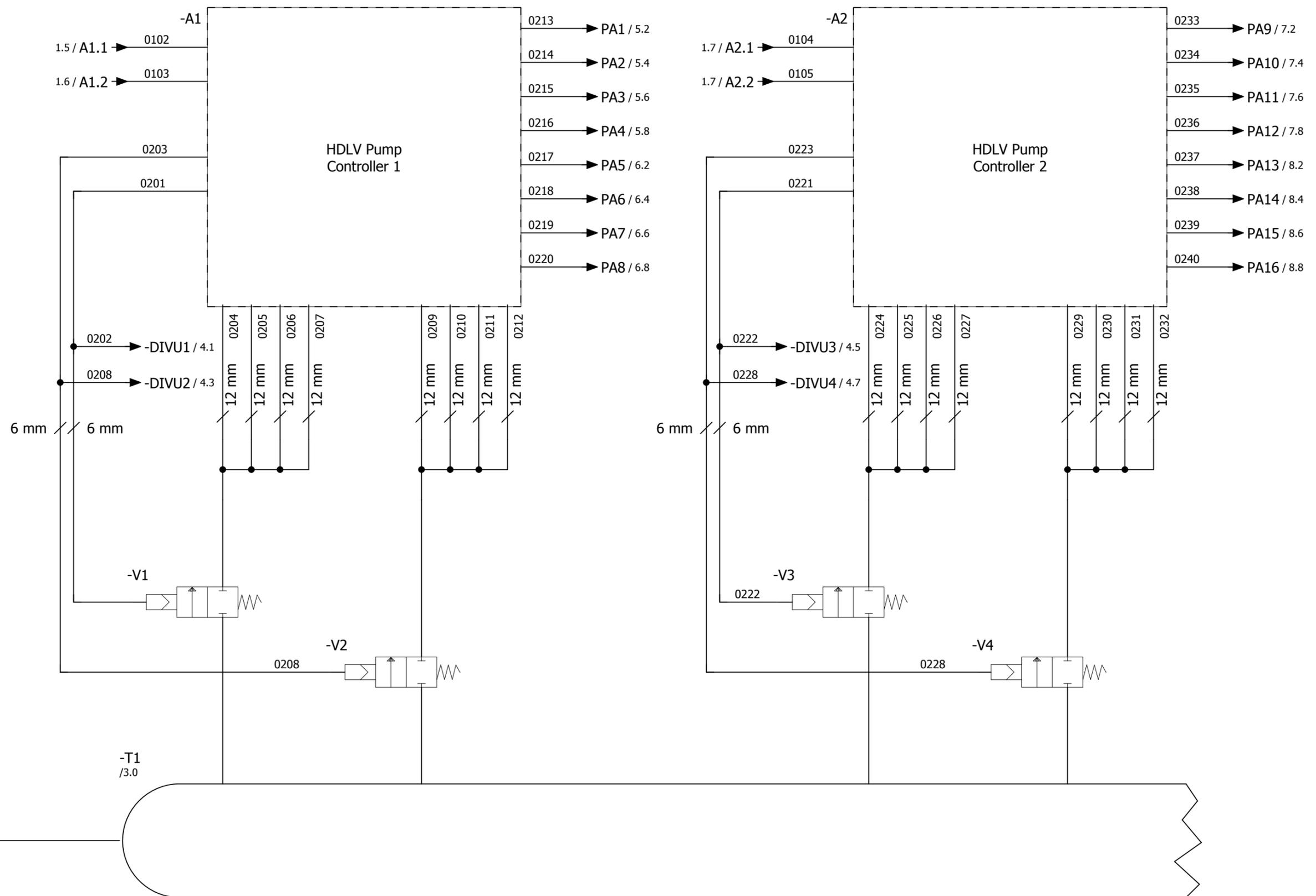
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Description
PNEUMATIK CONNECTIONS

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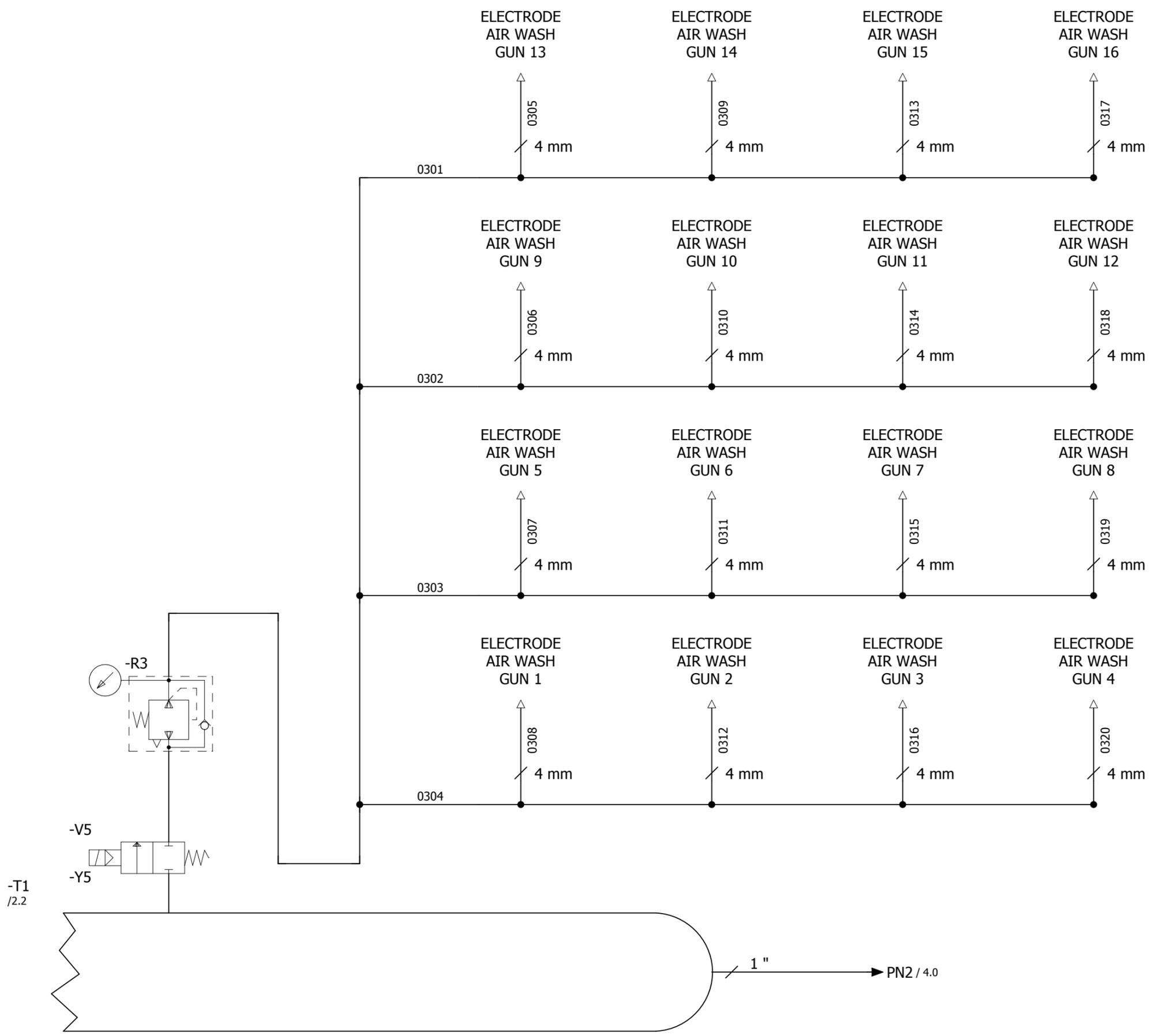
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Editor	Zimmermann
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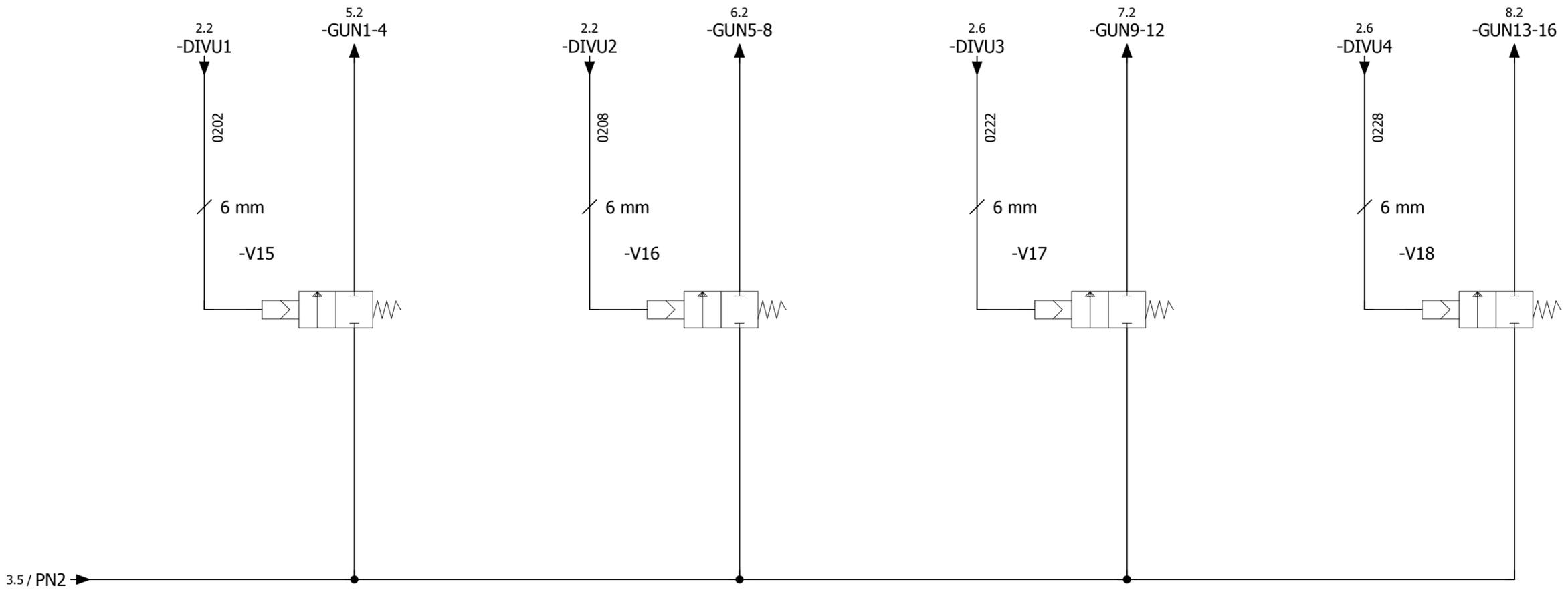


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		Editor	Zimmermann				PNEUMATIK CONNECTIONS		+ PN		HDLV Pneumatic	
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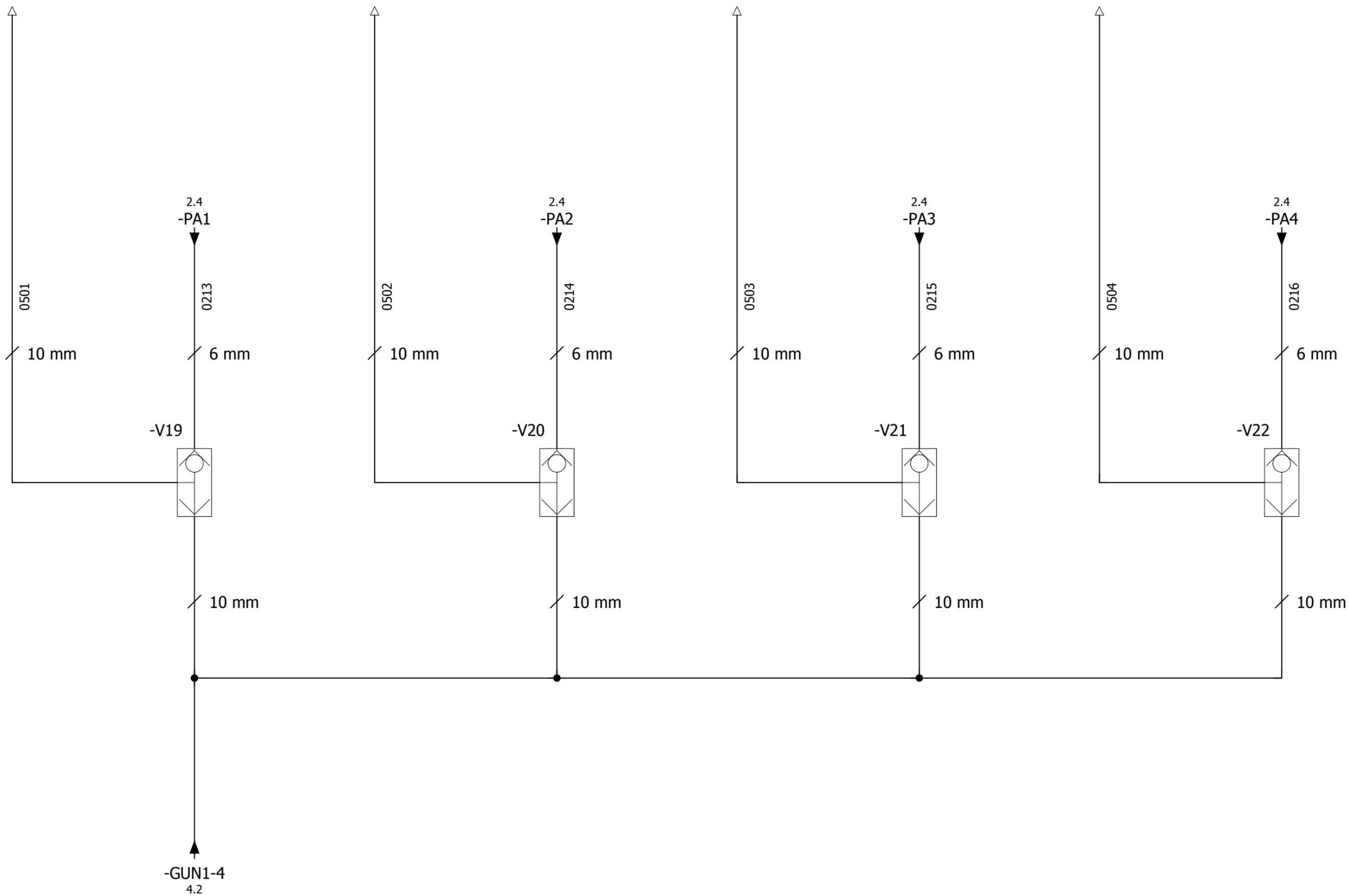
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GUN 2

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GUN 4



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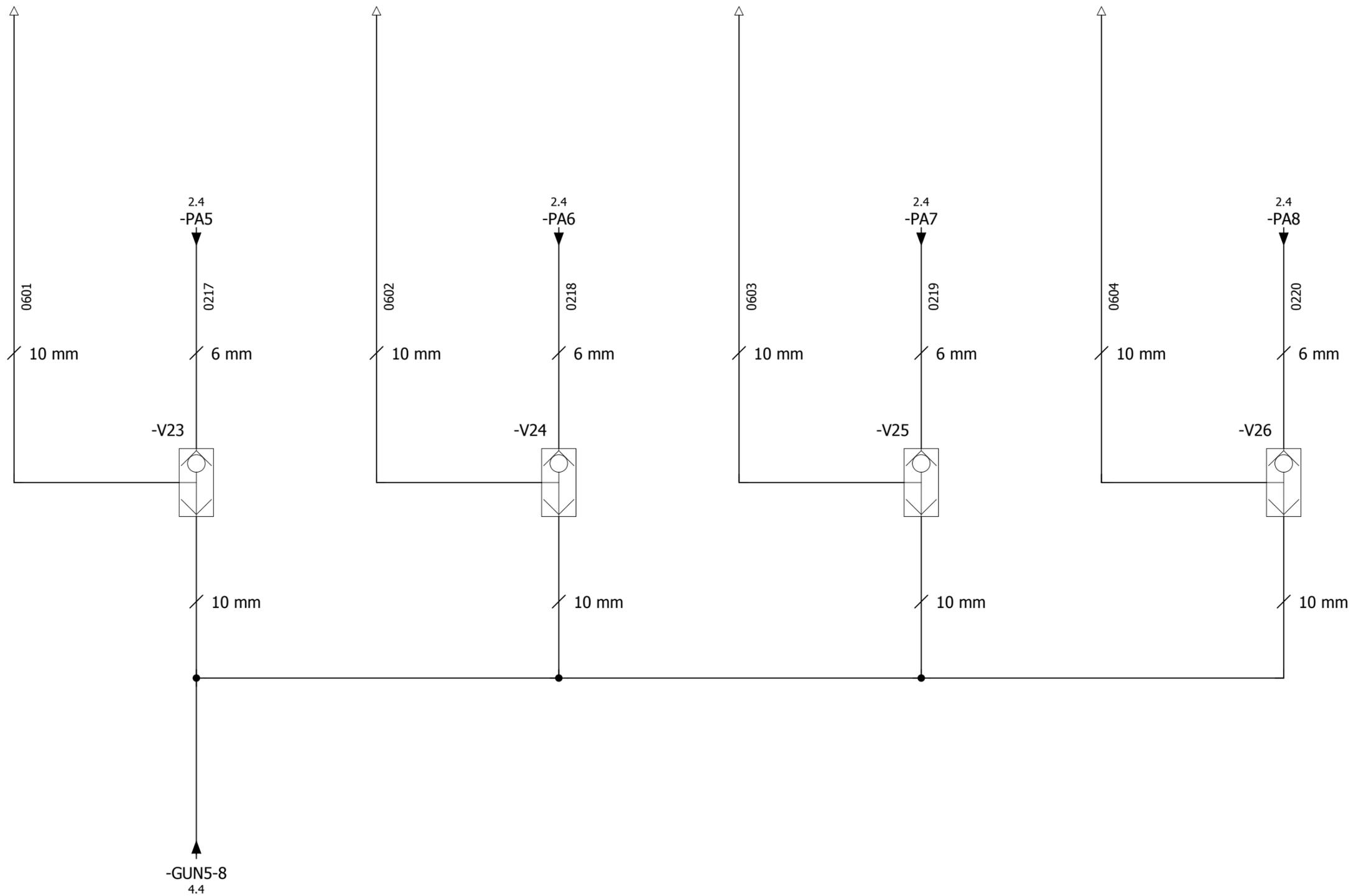
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GUN 8



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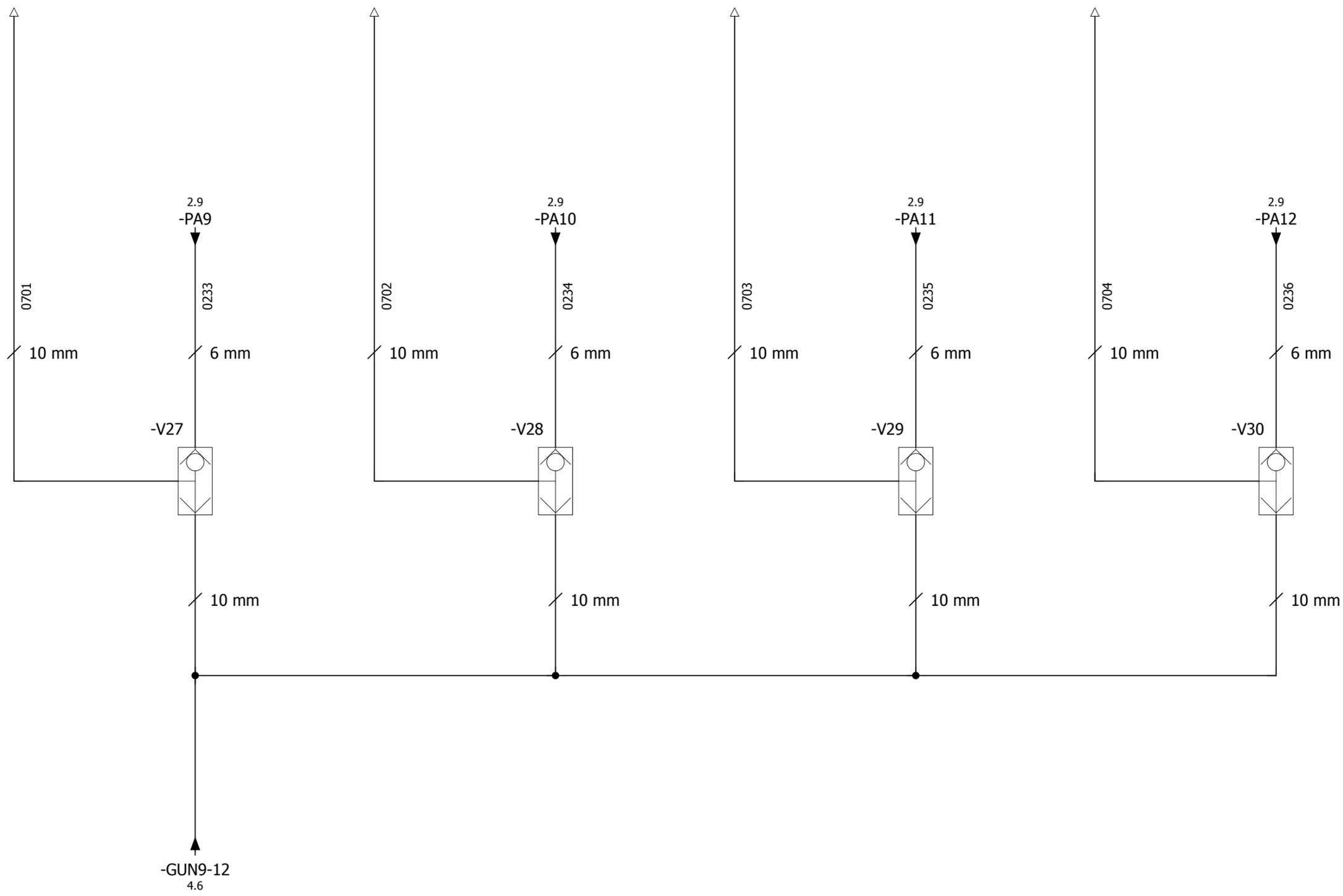
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GUN 10

GUN 11

GUN 12



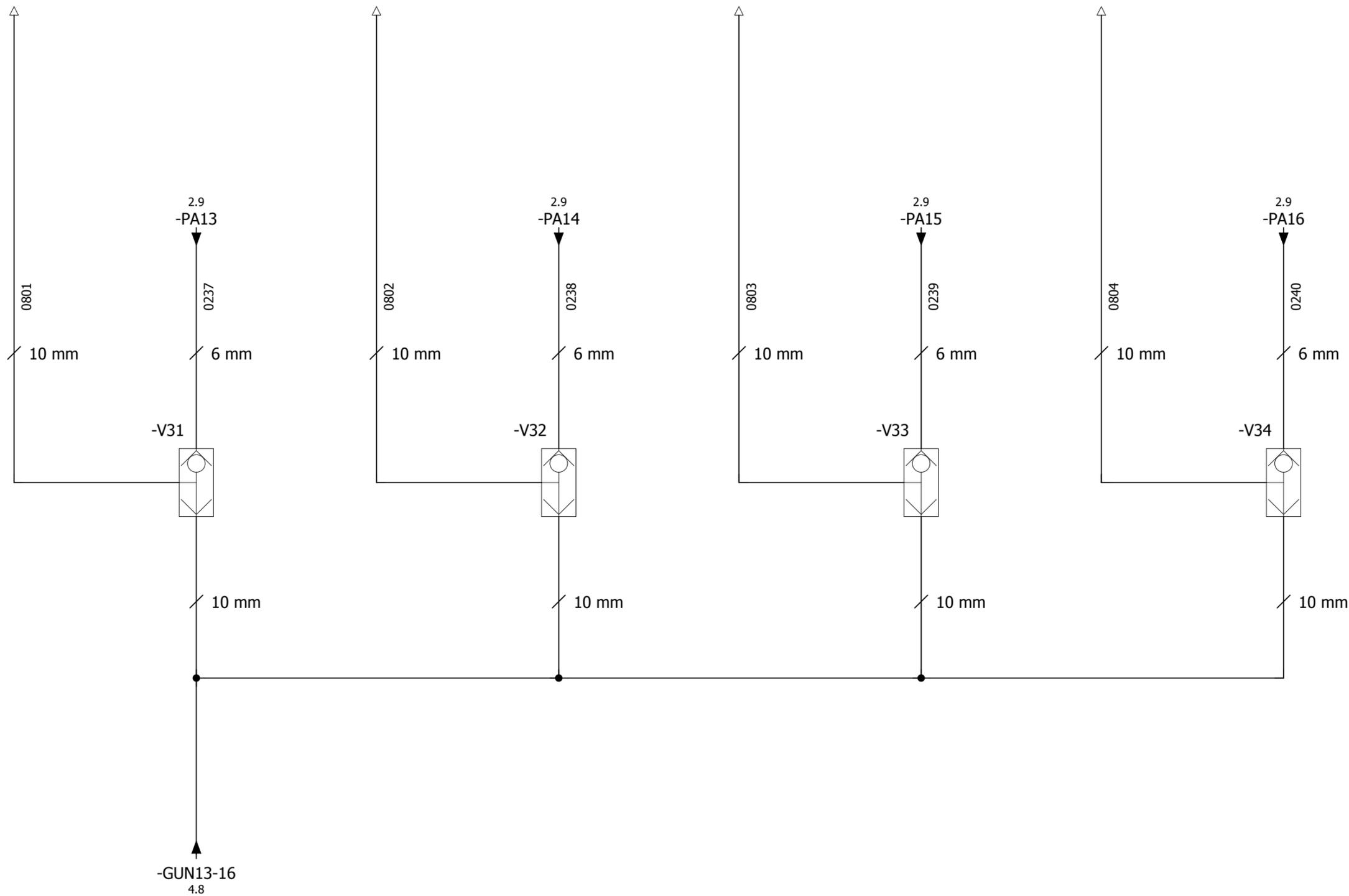
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GUN 16



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Description
 PNEUMATIK CONNECTIONS

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+ PN	HDLV Pneumatic	
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Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-A1	8	Y Quick conector 12mm - 2x10mm	KQ2U10-12A	SMC.KQ2U10-12A	SMC Pneumatik GmbH
+PN-A2	8	Y Quick conector 12mm - 2x10mm	KQ2U10-12A	SMC.KQ2U10-12A	SMC Pneumatik GmbH
+PN-R1	1	Filter regulator unit MS9-LFR	MS9-LFR-AGF-D6-C-U-M-AG-BAR-AS-WPM	FESTO.MS9-LFR-AGF-D6-C-U-M-AG-BAR-AS-WPM	Festo AG & Co. KG
+PN-R1	2	Hose Tail 1"-25mm	GT 1025 MSV	JAEGER.GT 1025 MSV	Jaeger Pneumatic
+PN-R1	1	Tube 1" 100mm	RONI 10/100 ST	JAEGER.RONI 10/100 ST	Jaeger Pneumatic
+PN-R1	2	Tube Clamp	SSB 37 ES	JAEGER.SSB 37 ES	Jaeger Pneumatic
+PN-R1	1	T-Piece 1"	TE 10 MSV	JAEGER.TE 10 MSV	Jaeger Pneumatic
+PN-R1	1	Blind Cap 1"	VS 10 A MSV	JAEGER.VS 10 A MSV	Jaeger Pneumatic
+PN-R1	1	Manifold 1" - 4x 1/2"	VTI 104 MSV	JAEGER.VTI 104 MSV	Jaeger Pneumatic
+PN-R1	1	Elbow 1" 90°	W 10 MSV	JAEGER.W 10 MSV	Jaeger Pneumatic
+PN-R1	4	Push In Fitting Elbow 90° 1/2" to 16mm	KQ2L16-04AS	SMC.KQ2L16-04AS	SMC Pneumatik GmbH
+PN-R1	2	Blind Plug 16mm	KQ2P-16	SMC.KQ2P-16	SMC Pneumatik GmbH
+PN-R3	4	Multiple distributor	QSLV4-1/8-4	FESTO.QSLV4-1/8-4	Festo AG & Co. KG
+PN-R3	14	Blanking plug	QSC-4H	FESTO.QSC-4H	Festo AG & Co. KG
+PN-R3	1	Pressure regulator MS4-LR	MS4-LR-AGC-D5-Z	FESTO.MS4-LR-AGC-D5-Z	Festo AG & Co. KG
+PN-R3	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-R3	1	Distributor bar 2 x G 3/8"-4 x G 1/8"	RLE 43818 A	JAEGER.RLE 43818 A	Jaeger Pneumatic
+PN-R3	1	Blind Cap G 3/8"	VS 38 AMSV	JAEGER.VS 38 AMSV	Jaeger Pneumatic
+PN-T1	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-T1	1	Pipe clamp	GR 5337 LARPV	JAEGER.GR 5337 LARPV	Jaeger Pneumatic
+PN-T1	1	Hose Tail 1"-25mm	GT 1025 MSV	JAEGER.GT 1025 MSV	Jaeger Pneumatic
+PN-T1	2	Sleeve G 1"-G 1"	MU 10 MSV	JAEGER.MU 10 MSV	Jaeger Pneumatic
+PN-T1	1	Tube 1" 120mm	RONI 10/120 ST	JAEGER.RONI 10/120 ST	Jaeger Pneumatic
+PN-T1	2	Tube 1" 200mm	RONI 10/200 ST	JAEGER.RONI 10/200 ST	Jaeger Pneumatic
+PN-T1	1	Tube Clamp	SSB 37 ES	JAEGER.SSB 37 ES	Jaeger Pneumatic
+PN-T1	5	Blind Cap 1/2"	VK 12 MSV	JAEGER.VK 12 MSV	Jaeger Pneumatic
+PN-T1	1	Blind Cap 1"	VS 10 A MSV	JAEGER.VS 10 A MSV	Jaeger Pneumatic
+PN-T1	1	Blind Cap 1/4"	VS 14 A MSV	JAEGER.VS 14 A MSV	Jaeger Pneumatic
+PN-T1	4	Distributor pipe G 1", 2 outlets G 1/2"	VTA 102 MSV	JAEGER.VTA 102 MSV	Jaeger Pneumatic
+PN-T1	1	Elbow 1" 90°	W 10 MSV	JAEGER.W 10 MSV	Jaeger Pneumatic
+PN-T1	3	Elbow 1" 90°	WE 10 MSV	JAEGER.WE 10 MSV	Jaeger Pneumatic
+PN-T1	1	Elbow 1/2" 90°	WT 12 FES	JAEGER.WT 12 FES	Jaeger Pneumatic
+PN-T1	1	Airtank 6x 1/2"	DP14265R0X0P000A	TURBO.DP14265R0X0P000A	
+PN-V1	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V1	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V1	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V2	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V2	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG

+PN/8

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Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-V2	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V3	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V3	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V3	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V4	1	Multiple distributor	QSLV4-1/2-12	FESTO.QSLV4-1/2-12	Festo AG & Co. KG
+PN-V4	1	Plug in fitting	QSMT-M5-6	FESTO.QSMT-M5-6	Festo AG & Co. KG
+PN-V4	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V4	2	Blanking plug	QSC-12H	FESTO.QSC-12H	Festo AG & Co. KG
+PN-V5	1	Solenoid	MD-2-24VDC-PA	FESTO.MD-2-24VDC-PA	Festo AG & Co. KG
+PN-V5	1	Connecting plug for solenoid and valve	MSSD-N	FESTO.MSSD-N	Festo AG & Co. KG
+PN-V5	1	Double nipple G 1/2"-G 3/8"	DN 1238 MSV	JAEGER.DN 1238 MSV	Jaeger Pneumatic
+PN-V15	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V15	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V15	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V15	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V16	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V16	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V16	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V16	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V17	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V17	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V17	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V17	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V18	1	Multiple distributor	QSLV4-3/8-10	FESTO.QSLV4-3/8-10	Festo AG & Co. KG
+PN-V18	1	Push-in/threaded L-fitting	QSML-M5-6	FESTO.QSML-M5-6	
+PN-V18	1	Solenoid valve	VLX-2-1/2-MS	FESTO.VLX-2-1/2-MS	Festo AG & Co. KG
+PN-V18	1	Reducing nipple G 1/2"-G 3/8"	RN 1238 MSV	JAEGER.RN 1238 MSV	Jaeger Pneumatic
+PN-V18	2	Blanking plug	QSC-10H	FESTO.QSC-10H	Festo AG & Co. KG
+PN-V19	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V19	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V19	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V20	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V20	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V20	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V21	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V21	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V21	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V22	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG

Parts list

Device tag	Quantity	Designation	Type number	Part number	Supplier
+PN-V22	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V22	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V23	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V23	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V23	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V24	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V24	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V24	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V25	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V25	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V25	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V26	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V26	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V26	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V27	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V27	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V27	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V28	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V28	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V28	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V29	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V29	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V29	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V30	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V30	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V30	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V31	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V31	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V31	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V32	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V32	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V32	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V33	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V33	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V33	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH
+PN-V34	1	Push-in fitting	QS-10H-6	FESTO.QS-10H-6	Festo AG & Co. KG
+PN-V34	1	Holder	TMH-10	SMC.TMH-10	SMC Pneumatik GmbH
+PN-V34	1	Shuttle Valve, 10mm	VR1220F-10	SMC.VR1220F-10	SMC Pneumatik GmbH

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