Revisions			
Rev.	**Description- Purpose revision**	**Initials**	**Date**
1	Initial Design	ACK	2025-06-06
2	Changed the bending cylinder to motion #2 (b) and the punch cylinder to motion #3 (c) and added part present switch	ACK	2025-06-20
3	BOM adjustment (fittings)	ACK	2025-06-24
4	BOM adjustment (fittings)	ACK	2025-09-17
5	BOM adjustment (self-aligning coupler FK-M10X1,25 to FK-M12X1,25)	ACK	2025-10-15
6	BOM adjustment (Bending cylinders DSNU-25-40-PPS-A to ADN-32-30-A-P-A)	ACK	2026-01-14
7	Drawing clean up and added revision table	ACK	2026-01-19
8	BOM adjustment (QSML-4's and additional tubing colours added), Tubing list adjusted.	ACK	2026-02-17
9	BOM adjustment (tubing) and title block correction	ACK	2026-02-23
10	Circuit update, BOM update	ACK	2026-03-26
11	Reference Designation update - two letter to three letter designations (EN 81346-2:2009 to EN IEC 81346-2:2019)	ACK	2026-06-10
12	Port designations updated on SV-3-M5's	ACK	2026-07-17
13	Reference Designation updates	ACK	2026-09-08

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Circuit Sequence: (MM1+, MM2+ & MM3+, MM4+) (MM1-, MM2- & MM3-, MM4-)

COMMENTS:		NAME	DATE
	DRAWN	ACK	2026-09-08
	CHECKED		
	ENG APPR.		
	MFG APPR.		
	Q.A.		

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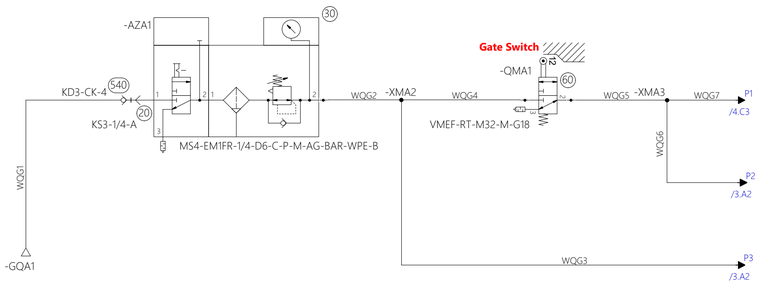
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TITLE: 2026 WS Industrial Mechanic 01

DWG. NO. WS26_250603

REV 13

SHEET 1 of 6



COMMENTS:		NAME	DATE
	DRAWN	ACK	2026-09-08
	CHECKED		
	ENG APPR.		
	MFG. APPR.		
	Q.A.		

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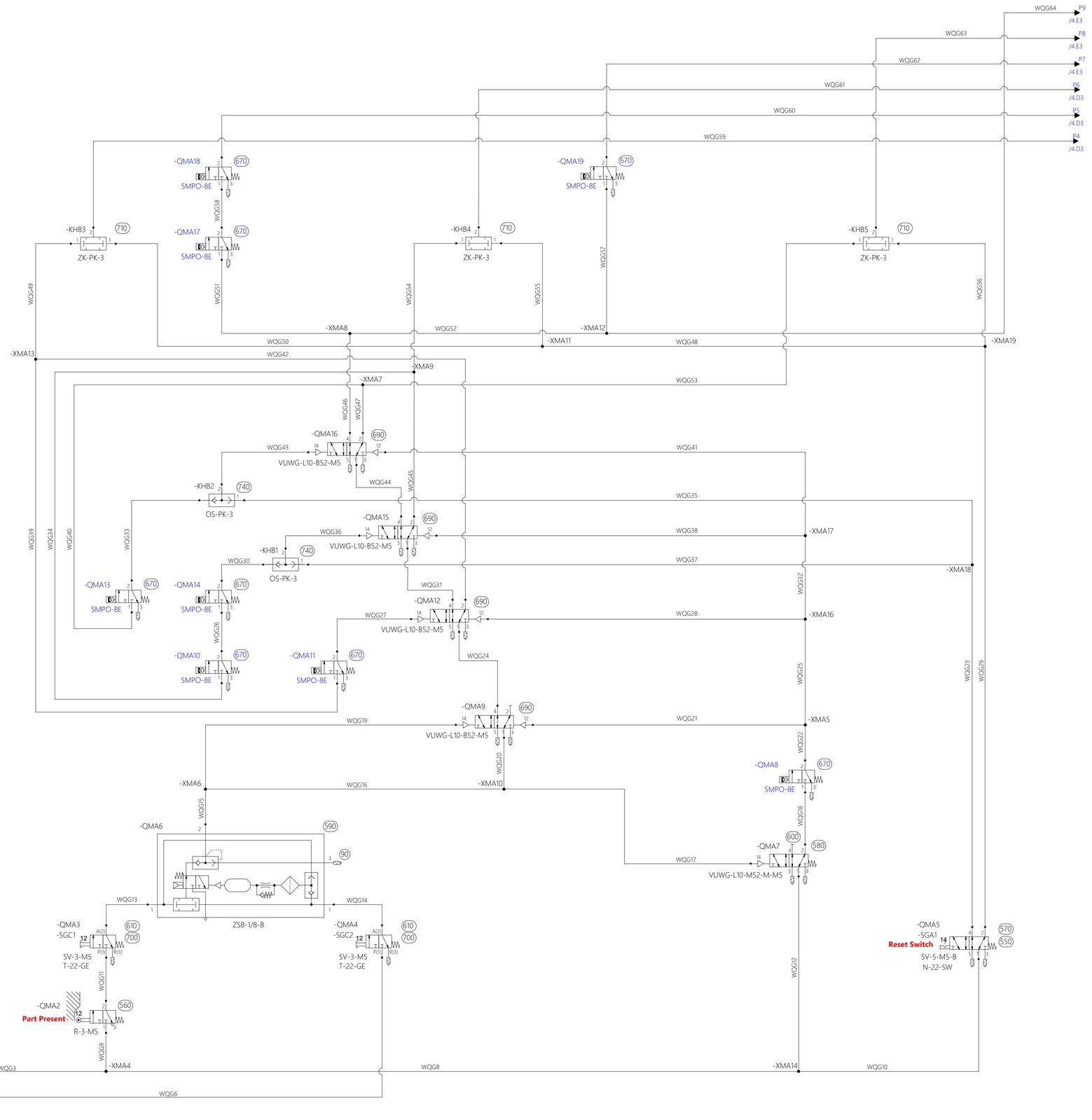
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TITLE: 2026 WS Industrial Mechanic 01

DWG. NO. WS26_250603

REV 13

SHEET 2 of 6



COMMENTS:		NAME	DATE
	DRAWN	ACK	2026-09-08
	CHECKED		
	ENG APPR.		
	MFG. APPR.		
	Q.A.		

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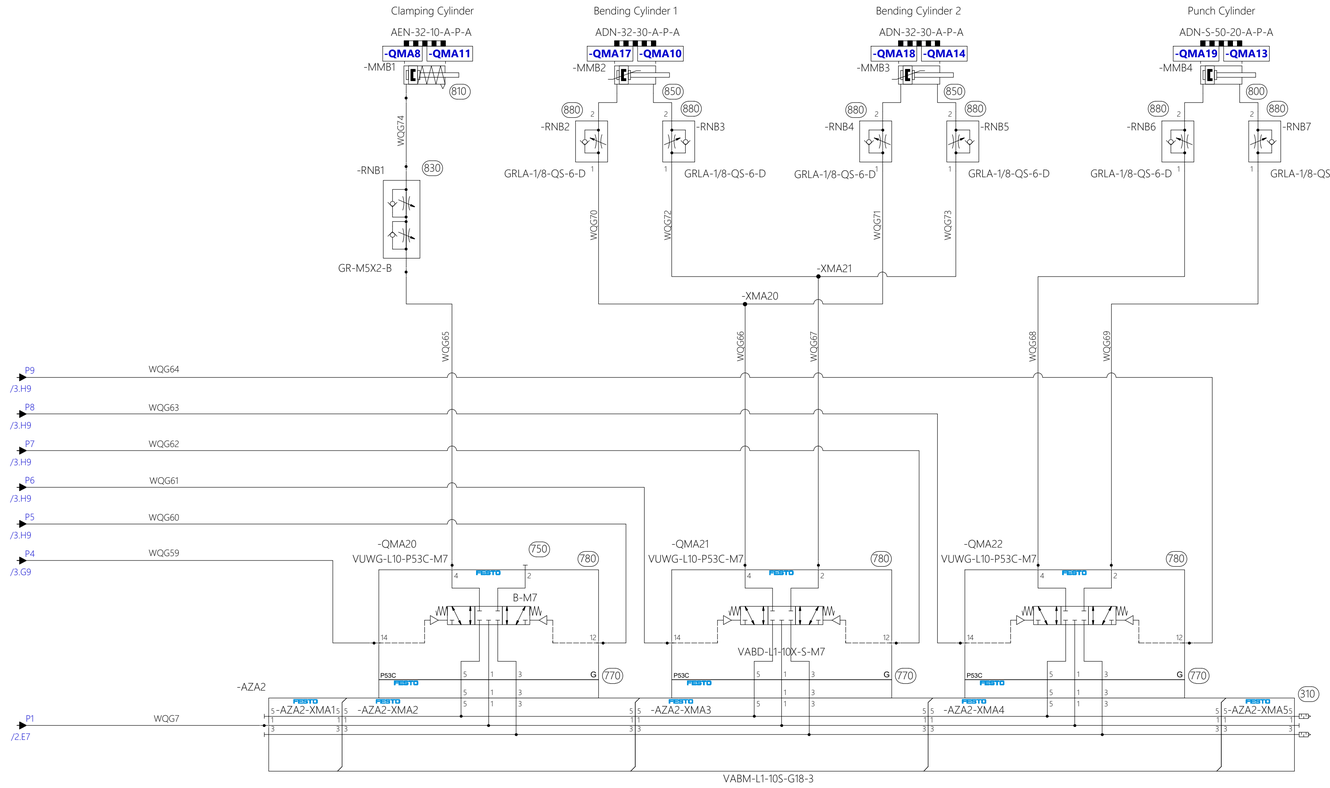
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TITLE: 2026 WS Industrial Mechanic 01

DWG. NO. WS26_250603

REV 13

SHEET 3 of 6



COMMENTS:		NAME	DATE
	DRAWN	ACK	2026-09-08
	CHECKED		
	ENG APPR.		
	MFG. APPR.		
	Q.A.		

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4_Actuators

FILE NAME:

TITLE:

2026 WS Industrial Mechanic 01

DWG. NO. WS26_250603

REV 13

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Pos.No.	Part number	Quantity	Order code 1	Item name	Identification	Location	Supplier
20	531666	1	KS3-1/4-A	Quick coupling plug	-AZA1-QMA1-XMA1	/2.E4	Festo
30	8098373	1	MS4-EM1FR-1/4-D6-C-P-M-AG-BAR-WPE-B	Service unit	-AZA1	/2.E5	Festo
40	186118	1	QSL-G1/4-6	Push-in L-fitting	-AZA1-KHA1-XMA1	/2.E5	Festo
50	2316	1	U-1/4	Silencer	-AZA1-QMA1-RQC1	/2.E5	Festo
60	8049239	1	VMEF-RT-M32-M-G18	Roller lever valve	-QMA1	/2.E6	Festo
70	186107	3	QS-G1/8-6-I	Push-in fitting	-QMA1-XMA1, -QMA1-XMA2, -AZA2-XMA1-XMA1	/2.E6, /2.E6, /4.C4	Festo
80	153134	2	QST-6-4	Push-in T-connector	-XMA2, -XMA3	/2.E6, /2.E7	Festo
90	1206622	4	AMTE-M-H-G18	Silencer	-AZA2-XMA5-RQC1, -QMA1-RQC1, -QMA6-RQC1, -AZA2-XMA5-RQC2	/4.C8, /2.E6, /3.B4, /4.C8	Festo
190	153333	18	QSML-M5-4	Push-in L-fitting	-QMA5-XMA1, -QMA5-XMA3, -QMA15-XMA3, -QMA12-XMA3, -QMA15-XMA2, -QMA16-XMA1, -QMA5-XMA2, -QMA7-XMA1, -QMA20-XMA3, -QMA20-XMA1, -QMA16-XMA3, -QMA21-XMA1, -QMA21-XMA4, -QMA9-XMA3, -QMA22-XMA1, -QMA9-XMA1, -QMA22-XMA4, -QMA12-XMA1	/3.B8, /3.B8, /3.E5, /3.D5, /3.E4, /3.E4, /3.B8, /3.B7, /4.D5, /4.D4, /3.E5, /4.D5, /4.D6, /3.C5, /4.D6, /3.C5, /4.D7, /3.D5	Festo
310	566559	1	VABM-L1-10S-G18-3	Manifold rail	-AZA2	/4.C4	Festo
480	197383	1	PUN-H-4X0,75-BL	Plastic tubing		/2.F8	Festo
490	197390	1	PUN-H-4X0,75-SW	Plastic tubing		/2.E8	Festo
500	558278	1	PUN-H-4X0,75-SI	Plastic tubing		/2.E8	Festo
510	197384	1	PUN-H-6X1-BL	Plastic tubing		/2.E8	Festo
520	197391	1	PUN-H-6X1-SW	Plastic tubing		/2.E8	Festo
530	558279	1	PUN-H-6X1-SI	Plastic tubing		/2.E8	Festo
540	531629	1	KD3-CK-4	Quick coupling socket	-XMA1	/2.E4	Festo
550	9301	1	N-22-SW	Selector switch	-SGA1	/3.B8	Festo
560	3629	1	R-3-M5	Roller lever valve	-QMA2	/3.A3	Festo
570	11914	1	SV-5-M5-B	Front panel valve	-QMA5	/3.B8	Festo
580	574254	1	VUWG-L10-M52-M-M5	Pneumatic valve	-QMA7	/3.B7	Festo
590	576656	1	ZSB-1/8-B	Control block for two-hand start	-QMA6	/3.B4	Festo
600	174308	2	B-M5-B	Blanking plug	-QMA7-RND1, -QMA9-RND1	/3.B7, /3.C5	Festo
610	6817	2	SV-3-M5	Front panel valve	-QMA3, -QMA4	/3.B3, /3.B5	Festo
620	186095	3	QS-G1/8-4	Push-in fitting	-QMA6-XMA3, -QMA6-XMA2, -QMA6-XMA1	/3.B4, /3.C4, /3.B3	Festo
630	1206621	14	AMTE-M-H-M5	Silencer	-QMA7-RQC2, -QMA12-RQC2, -QMA9-RQC1, -QMA4-RQC1, -QMA5-RQC2, -QMA3-RQC1, -QMA15-RQC1, -QMA15-RQC2, -QMA5-RQC1, -QMA16-RQC1, -QMA16-RQC2, -QMA12-RQC1, -QMA7-RQC1, -QMA9-RQC2	/3.B7, /3.D5, /3.C5, /3.B5, /3.B8, /3.B3, /3.E5, /3.E5, /3.B8, /3.E4, /3.E5, /3.D5, /3.B7, /3.C5	Festo
640	130831	14	QSMLV-M5-4-I	Push-in L-fitting	-QMA12-XMA5, -QMA7-XMA2, -QMA4-XMA1, -QMA4-XMA2, -QMA12-XMA4, -QMA16-XMA2, -QMA15-XMA5, -QMA15-XMA4, -QMA3-XMA1, -QMA7-XMA3, -QMA3-XMA2, -QMA15-XMA1, -QMA12-XMA2, -QMA9-XMA4	/3.D5, /3.B7, /3.B5, /3.B5, /3.D5, /3.E4, /3.E5, /3.E5, /3.B3, /3.B7, /3.B3, /3.E5, /3.D5, /3.C5	Festo
650	178230	8	SMB-8E	Mounting kit	-QMA11-UQA1, -QMA13-UQA1, -QMA10-UQA1, -QMA8-UQA1, -QMA14-UQA1, -QMA17-UQA1, -QMA18-UQA1, -QMA19-UQA1	/3.D4, /3.D3, /3.D4, /3.C7, /3.D4, /3.G4, /3.G4, /3.G6	Festo
660	153128	12	QST-4	Push-in T-connector	-XMA10, -XMA18, -XMA11, -XMA19, -XMA16, -XMA7, -XMA9, -XMA13, -XMA6, -XMA4, -XMA17, -XMA14	/3.C5, /3.D8, /3.F6, /3.F8, /3.D7, /3.F5, /3.F5, /3.F3, /3.C4, /3.A3, /3.E7, /3.A7	Festo
670	178563	8	SMPO-8E	Proximity sensor	-QMA18, -QMA19, -QMA14, -QMA10, -QMA13, -QMA17, -QMA11, -QMA8	/3.G4, /3.G6, /3.D4, /3.D4, /3.D3, /3.G4, /3.D4, /3.C7	Festo
680	153315	5	QSM-M5-4-I	Push-in fitting	-QMA2-XMA2, -QMA2-XMA1, -QMA16-XMA4, -QMA16-XMA5, -QMA9-XMA2	/3.A3, /3.A3, /3.E4, /3.E5, /3.C5	Festo
690	573809	4	VUWG-L10-B52-M5	Pneumatic valve	-QMA15, -QMA16, -QMA9, -QMA12	/3.E5, /3.E4, /3.C5, /3.D5	Festo
700	9290	2	T-22-GE	Pushbutton actuator	-SGC2, -SGC1	/3.B4, /3.B3	Festo
710	6685	3	ZK-PK-3	AND gate	-KHB3, -KHB5, -KHB4	/3.G3, /3.G7, /3.G5	Festo
720	153344	15	QSML-4	Push-in L-connector	-KHB2-XMA1, -KHB1-XMA2, -KHB2-XMA2, -KHB2-XMA3, -KHB3-XMA1, -KHB3-XMA3, -KHB4-XMA1, -KHB1-XMA1, -KHB4-XMA2, -KHB4-XMA3, -KHB5-XMA1, -KHB5-XMA3, -KHB5-XMA2, -KHB3-XMA2, -KHB1-XMA3	/3.E4, /3.D4, /3.E4, /3.E4, /3.G3, /3.G3, /3.G5, /3.D4, /3.G5, /3.G5, /3.G7, /3.G7, /3.G8, /3.G3, /3.E4	Festo
730	153148	2	QSY-4	Push-in Y-connector	-XMA12, -XMA8	/3.F6, /3.F4	Festo
740	6684	2	OS-PK-3	OR gate	-KHB2, -KHB1	/3.E4, /3.D4	Festo
750	174309	1	B-M7	Blanking plug	-QMA20-RMB1	/4.D5	Festo
760	3568	3	B-1/8	Blanking plug	-AZA2-XMA5-RND1, -AZA2-XMA1-RND1, -AZA2-XMA1-RND2	/4.C8, /4.C4, /4.C4	Festo
770	566673	3	VABD-L1-10X-S-M7	Seal	-AZA2-XMA4-RNB1, -AZA2-XMA3-RNB1, -AZA2-XMA2-RNB1	/4.C7, /4.C6, /4.C4	Festo
780	573826	3	VUWG-L10-P53C-M7	Pneumatic valve	-QMA22, -QMA21, -QMA20	/4.D7, /4.D6, /4.D4	Festo
790	153321	5	QSM-M7-6-I	Push-in fitting	-QMA20-XMA2, -QMA21-XMA2, -QMA21-XMA3, -QMA22-XMA3, -QMA22-XMA2	/4.D4, /4.D5, /4.D6, /4.D7, /4.D7	Festo
800	8092076	1	ADN-S-50-20-A-P-A	Compact cylinder	-MMB4	/4.F7	Festo
810	536418	1	AEN-32-10-A-P-A	Compact cylinder	-MMB1	/4.F4	Festo
820	6141	1	FK-M12X1,25	Self-aligning rod coupler	-MMB1-UPB1	/4.F8	Festo
830	152611	1	GR-M5X2-B	One-way flow control valve	-RNB1	/4.F4	Festo
840	186117	1	QSL-G1/8-6	Push-in L-fitting	-MMB1-XMA1	/4.F4	Festo
850	536273	2	ADN-32-30-A-P-A	Compact cylinder	-MMB3, -MMB2	/4.F6, /4.F5	Festo
860	31761	2	LBG-32	Clevis foot	-MMB2-UPB1, -MMB3-UPB1	/4.F5, /4.F6	Festo
870	174397	2	SNCS-32	Swivel flange	-MMB3-UPA1, -MMB2-UPA1	/4.F6, /4.F5	Festo
880	193144	6	GRLA-1/8-QS-6-D	One-way flow control valve	-RNB2, -RNB3, -RNB6, -RNB7, -RNB4, -RNB5	/4.F5, /4.F5, /4.F7, /4.F7, /4.F6, /4.F6	Festo
890	153317	2	QSM-M5-6-I	Push-in fitting	-RNB1-XMA2, -RNB1-XMA1	/4.F4, /4.E4	Festo
900	153149	2	QSY-6	Push-in Y-connector	-XMA21, -XMA20	/4.E6, /4.E5	Festo

COMMENTS:

	NAME	DATE
DRAWN	ACK	2026-09-08
CHECKED		
ENG APPR.		
MFG. APPR.		
Q.A.		

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FILE NAME: 2_Parts_List

TITLE: 2026 WS Industrial Mechanic 01

DWG. NO. WS26_250603

REV 13

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		Target ID from			Target ID to					
Pos. No.	Identification	Page/Path	Identification	Connector	Page/Path	Identification	Connector	Cross-Section	Item name	Supplier
1	WQG1	/2.D4	-GQA1		/2.E4	-XMA1	1	Ø6mm	Plastic tubing	Festo
2	WQG2	/2.E5	-AZA1-KHA1-XMA1	2	/2.E6	-XMA2		Ø6mm	Plastic tubing	Festo
3	WQG3	/2.E7	-XMA3		/3.A3	-XMA4		Ø4mm	Plastic tubing	Festo
4	WQG4	/2.E6	-XMA2		/2.E6	-QMA1-XMA1	1	Ø6mm	Plastic tubing	Festo
5	WQG5	/2.E6	-QMA1-XMA2	2	/2.E7	-XMA3		Ø6mm	Plastic tubing	Festo
6	WQG6	/2.E6	-XMA2		/3.B5	-QMA4-XMA1	P(1)	Ø4mm	Plastic tubing	Festo
7	WQG7	/2.E7	-XMA3		/4.C4	-AZA2-XMA1-XMA1	1	Ø6mm	Plastic tubing	Festo
8	WQG8	/3.A3	-XMA4		/3.A7	-XMA14		Ø4mm	Plastic tubing	Festo
9	WQG9	/3.A3	-XMA4		/3.A3	-QMA2-XMA1	1	Ø4mm	Plastic tubing	Festo
10	WQG10	/3.A7	-XMA14		/3.B8	-QMA5-XMA1	1	Ø4mm	Plastic tubing	Festo
11	WQG11	/3.A3	-QMA2-XMA2	2	/3.B3	-QMA3-XMA1	P(1)	Ø4mm	Plastic tubing	Festo
12	WQG12	/3.A7	-XMA14		/3.B7	-QMA7-XMA2	1	Ø4mm	Plastic tubing	Festo
13	WQG13	/3.B3	-QMA3-XMA2	A(2)	/3.B3	-QMA6-XMA1	1	Ø4mm	Plastic tubing	Festo
14	WQG14	/3.B5	-QMA4-XMA2	A(2)	/3.B4	-QMA6-XMA3	1	Ø4mm	Plastic tubing	Festo
15	WQG15	/3.C4	-QMA6-XMA2	2	/3.C4	-XMA6		Ø4mm	Plastic tubing	Festo
16	WQG16	/3.C4	-XMA6		/3.C5	-XMA10		Ø4mm	Plastic tubing	Festo
17	WQG17	/3.C5	-XMA10		/3.B7	-QMA7-XMA1	14	Ø4mm	Plastic tubing	Festo
18	WQG18	/3.B7	-QMA7-XMA3	2	/3.C7	-QMA8-XMA2	1	Ø4mm	Plastic tubing	Festo
19	WQG19	/3.C4	-XMA6		/3.C5	-QMA9-XMA1	14	Ø4mm	Plastic tubing	Festo
20	WQG20	/3.C5	-XMA10		/3.C5	-QMA9-XMA2	1	Ø4mm	Plastic tubing	Festo
21	WQG21	/3.C7	-XMA5		/3.C5	-QMA9-XMA3	12	Ø4mm	Plastic tubing	Festo
22	WQG22	/3.C7	-QMA8-XMA1	2	/3.C7	-XMA5		Ø4mm	Plastic tubing	Festo
23	WQG23	/3.B8	-QMA5-XMA2	4	/3.D8	-XMA18		Ø4mm	Plastic tubing	Festo
24	WQG24	/3.C5	-QMA9-XMA4	4	/3.D5	-QMA12-XMA2	1	Ø4mm	Plastic tubing	Festo
25	WQG25	/3.C7	-XMA5		/3.D7	-XMA16		Ø4mm	Plastic tubing	Festo
26	WQG26	/3.D4	-QMA10-XMA1	2	/3.D4	-QMA14-XMA2	1	Ø4mm	Plastic tubing	Festo
27	WQG27	/3.D4	-QMA11-XMA1	2	/3.D5	-QMA12-XMA1	14	Ø4mm	Plastic tubing	Festo
28	WQG28	/3.D7	-XMA16		/3.D5	-QMA12-XMA3	12	Ø4mm	Plastic tubing	Festo
29	WQG29	/3.B8	-QMA5-XMA3	2	/3.F8	-XMA19		Ø4mm	Plastic tubing	Festo
30	WQG30	/3.D4	-QMA14-XMA1	2	/3.D4	-KHB1-XMA1	1	Ø4mm	Plastic tubing	Festo
31	WQG31	/3.D5	-QMA12-XMA4	4	/3.E5	-QMA15-XMA1	1	Ø4mm	Plastic tubing	Festo
32	WQG32	/3.D7	-XMA16		/3.E7	-XMA17		Ø4mm	Plastic tubing	Festo
33	WQG33	/3.D3	-QMA13-XMA1	2	/3.E4	-KHB2-XMA1	1	Ø4mm	Plastic tubing	Festo
34	WQG34	/3.F5	-XMA9		/3.D4	-QMA10-XMA2	1	Ø4mm	Plastic tubing	Festo
35	WQG35	/3.D8	-XMA18		/3.E4	-KHB2-XMA2	1	Ø4mm	Plastic tubing	Festo
36	WQG36	/3.E4	-KHB1-XMA3	2	/3.E4	-QMA15-XMA2	14	Ø4mm	Plastic tubing	Festo
37	WQG37	/3.D8	-XMA18		/3.D4	-KHB1-XMA2	1	Ø4mm	Plastic tubing	Festo
38	WQG38	/3.E7	-XMA17		/3.E5	-QMA15-XMA3	12	Ø4mm	Plastic tubing	Festo
39	WQG39	/3.F3	-XMA13		/3.D4	-QMA11-XMA2	1	Ø4mm	Plastic tubing	Festo
40	WQG40	/3.F5	-XMA7		/3.D3	-QMA13-XMA2	1	Ø4mm	Plastic tubing	Festo
41	WQG41	/3.E7	-XMA17		/3.E5	-QMA16-XMA3	12	Ø4mm	Plastic tubing	Festo
42	WQG42	/3.D5	-QMA12-XMA5	2	/3.F3	-XMA13		Ø4mm	Plastic tubing	Festo
43	WQG43	/3.E4	-KHB2-XMA3	2	/3.E4	-QMA16-XMA1	14	Ø4mm	Plastic tubing	Festo
44	WQG44	/3.E5	-QMA15-XMA4	4	/3.E4	-QMA16-XMA2	1	Ø4mm	Plastic tubing	Festo
45	WQG45	/3.E5	-QMA15-XMA5	2	/3.F5	-XMA9		Ø4mm	Plastic tubing	Festo
46	WQG46	/3.E4	-QMA16-XMA4	4	/3.F4	-XMA8		Ø4mm	Plastic tubing	Festo
47	WQG47	/3.E5	-QMA16-XMA5	2	/3.F5	-XMA7		Ø4mm	Plastic tubing	Festo
48	WQG48	/3.F8	-XMA19		/3.F6	-XMA11		Ø4mm	Plastic tubing	Festo
49	WQG49	/3.F3	-XMA13		/3.G3	-KHB3-XMA1	1	Ø4mm	Plastic tubing	Festo
50	WQG50	/3.F6	-XMA11		/3.G3	-KHB3-XMA2	1	Ø4mm	Plastic tubing	Festo
51	WQG51	/3.F4	-XMA8		/3.G4	-QMA17-XMA2	1	Ø4mm	Plastic tubing	Festo
52	WQG52	/3.F4	-XMA8		/3.F6	-XMA12		Ø4mm	Plastic tubing	Festo
53	WQG53	/3.F5	-XMA7		/3.G7	-KHB5-XMA1	1	Ø4mm	Plastic tubing	Festo
54	WQG54	/3.F5	-XMA9		/3.G5	-KHB4-XMA1	1	Ø4mm	Plastic tubing	Festo
55	WQG55	/3.F6	-XMA11		/3.G5	-KHB4-XMA3	1	Ø4mm	Plastic tubing	Festo
56	WQG56	/3.F8	-XMA19		/3.G8	-KHB5-XMA2	1	Ø4mm	Plastic tubing	Festo
57	WQG57	/3.F6	-XMA12		/3.G6	-QMA19-XMA2	1	Ø4mm	Plastic tubing	Festo
58	WQG58	/3.G4	-QMA17-XMA1	2	/3.G4	-QMA18-XMA2	1	Ø4mm	Plastic tubing	Festo
59	WQG59	/3.G3	-KHB3-XMA3	2	/4.D4	-QMA20-XMA1	14	Ø4mm	Plastic tubing	Festo
60	WQG60	/3.G4	-QMA18-XMA1	2	/4.D5	-QMA20-XMA3	12	Ø4mm	Plastic tubing	Festo
61	WQG61	/3.G5	-KHB4-XMA2	2	/4.D5	-QMA21-XMA1	14	Ø4mm	Plastic tubing	Festo
62	WQG62	/3.G6	-QMA19-XMA1	2	/4.D6	-QMA21-XMA4	12	Ø4mm	Plastic tubing	Festo
63	WQG63	/3.G7	-KHB5-XMA3	2	/4.D6	-QMA22-XMA1	14	Ø4mm	Plastic tubing	Festo
64	WQG64	/3.F6	-XMA12		/4.D7	-QMA22-XMA4	12	Ø4mm	Plastic tubing	Festo
65	WQG65	/4.D4	-QMA20-XMA2	4	/4.E4	-RNB1-XMA1	1	Ø6mm	Plastic tubing	Festo
66	WQG66	/4.D5	-QMA21-XMA2	4	/4.E5	-XMA20		Ø6mm	Plastic tubing	Festo
67	WQG67	/4.D6	-QMA21-XMA3	2	/4.E6	-XMA21		Ø6mm	Plastic tubing	Festo
68	WQG68	/4.D7	-QMA22-XMA2	4	/4.F7	-RNB6	1	Ø6mm	Plastic tubing	Festo
69	WQG69	/4.D7	-QMA22-XMA3	2	/4.F7	-RNB7	1	Ø6mm	Plastic tubing	Festo
70	WQG70	/4.E5	-XMA20		/4.F5	-RNB2	1	Ø6mm	Plastic tubing	Festo
71	WQG71	/4.E5	-XMA20		/4.F6	-RNB4	1	Ø6mm	Plastic tubing	Festo
72	WQG72	/4.E6	-XMA21		/4.F5	-RNB3	1	Ø6mm	Plastic tubing	Festo
73	WQG73	/4.E6	-XMA21		/4.F6	-RNB5	1	Ø6mm	Plastic tubing	Festo
74	WQG74	/4.F4	-RNB1-XMA2	2	/4.F4	-MMB1-XMA1		Ø6mm	Plastic tubing	Festo

COMMENTS:

	NAME	DATE
DRAWN	ACK	2026-09-08
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