

07'~09'



ISO-9001 CE UL SF



AA-2251-02
1/4" High pressure F.R.L unit
AA-2251-03
3/8" High pressure F.R.L unit
AA-2251-04
1/2" High pressure F.R.L unit



AA-2351-02
1/4" High pressure F.R.L unit
AA-2351-03
3/8" High pressure F.R.L unit
AA-2351-04
1/2" High pressure F.R.L unit



AA-2050-02
1/4" F.R.L unit
AA-2050-03
3/8" F.R.L unit



AA-2150-02
1/4" F.R.L unit
AA-2150-03
3/8" F.R.L unit



AA-2251FR-02
1/4" High pressure Regulator/Filter
AA-2251FR-03
3/8" High pressure Regulator/Filter
AA-2251FR-04
1/2" High pressure Regulator/Filter



AA-2351F-02
1/4" High pressure Filter
AA-2351F-03
3/8" High pressure Filter
AA-2351F-04
1/2" High pressure Filter



AA-2351L-02
1/4" High pressure Lubricator
AA-2351L-03
3/8" High pressure Lubricator
AA-2351L-04
1/2" High pressure Lubricator



AA-2351R-02
1/4" High pressure Regulator
AA-2351R-03
3/8" High pressure Regulator
AA-2351R-04
1/2" High pressure Regulator



AA-2050FR-02
1/4" Regulator/Filter
AA-2050FR-03
3/8" Regulator/Filter



AA-2150F-02
1/4" Filter
AA-2150F-03
3/8" Filter



AA-2150L-02
1/4" Lubricator
AA-2150L-03
3/8" Lubricator



AA-2150R-02
1/4" Regulator
AA-2150R-03
3/8" Regulator



Model No.	Port Size	Range Of Pressure (kg/cm ²)	Standard Filter Element (µm)	Max. Flow Rate (l/min)	Temp. Range	Standard Drain	Lubricator oil	Weight		Packing Pcs/Ctn/G.Wt/Cuft (kg)	Lubricator Bowl Capacity (cc)
								lb	kg		
AA-2050-02	1/4"	0.5~8.5	5	1900	-5~60 C	Semi-auto drain	ISO VG-32	1.59	0.72	40/Ctn/34 kg/3.68'	55
AA-2050-03	3/8"	0.5~8.5	5	2100	-5~60 C	Semi-auto drain	ISO VG-32	1.59	0.72	40/Ctn/34 kg/3.68'	55
AA-2150-02	1/4"	0.5~8.5	5	1900	-5~60 C	Semi-auto drain	ISO VG-32	2.20	1.0	30/Ctn/33.5 kg/3.68'	55
AA-2150-03	3/8"	0.5~8.5	5	2100	-5~60 C	Semi-auto drain	ISO VG-32	2.20	1.0	30/Ctn/33.5 kg/3.68'	55
AA-2251-02	1/4"	1.0~15.0	40	2500	-5~60 C	Semi-auto drain	ISO VG-32	3.35	1.52	20/Ctn/35 kg/3.68'	200
AA-2251-03	3/8"	1.0~15.0	40	2700	-5~60 C	Semi-auto drain	ISO VG-32	3.35	1.52	20/Ctn/35 kg/3.68'	200
AA-2251-04	1/2"	1.0~15.0	40	3200	-5~60 C	Semi-auto drain	ISO VG-32	3.35	1.52	20/Ctn/35 kg/3.68'	200
AA-2351-02	1/4"	1.0~15.0	40	2500	-5~60 C	Semi-auto drain	ISO VG-32	4.01	1.82	12/Ctn/28 kg/3.68'	200
AA-2351-03	3/8"	1.0~15.0	40	2700	-5~60 C	Semi-auto drain	ISO VG-32	4.01	1.82	12/Ctn/28 kg/3.68'	200
AA-2351-04	1/2"	1.0~15.0	40	3200	-5~60 C	Semi-auto drain	ISO VG-32	4.01	1.82	12/Ctn/28 kg/3.68'	200

(Standard unit contains semi-auto-drain function when operating pressure below 0.5kg/cm².)

AA-2010A2
1/4" F.R.L unit
AA-2010A3
3/8" F.R.L unit
AA-2010A4
1/2" F.R.L unit



AA-2000A2
1/4" F.R.L unit
AA-2000A3
3/8" F.R.L unit
AA-2000A4
1/2" F.R.L unit



AP-2141
1/2" Regulator/Filter
AP-2131
3/8" Regulator/Filter
AP-2121
1/4" Regulator/Filter



AP-2142
1/2" Filter
AP-2132
3/8" Filter
AP-2122
1/4" Filter



AP-2143
1/2" Lubricator
AP-2133
3/8" Lubricator
AP-2123
1/4" Lubricator



AP-2144
1/2" Regulator
AP-2134
3/8" Regulator
AP-2124
1/4" Regulator



Function:

- **Air filter:**
The Air filter can Removing dirt particles and water vapor from compressed air. The impurity particles trapped in the filter and water vapor condensates in the filter cup. Such function prevents impurity particles and water vapor entering the air tool to prevent damage and rusting. It is essential to drain water from the cup often so that the water vapor won't be carried by compressed air.
- **Air regulator:**
Provide a steady pressure regardless of the deviation in the air source; and prevent over-pressure that may cause damage to the components of air tools. Usually the inlet pressure should be higher than that of outlet by 0.7Kg/cm².
- **Lubricator:**
Providing sufficient lubrication for the air tool components by siphon effect that sucks up air tool oil and mix with the compressed air. This achieves the function of lubrication, anti-rust and decontamination for air tool.

Model No.	Port Size	Range of Pressure (kg/cm ²)	Standard Filter Element (µm)	Optional Filter Element (µm)	Max. Flow Rate (l/min)	Temp. Range	Standard Drain	Lubricator oil	Weight		Packing Pcs/Ctn/G.W/Cuft (kg)	Lubricator Bowl Capacity (cc)
									lb	kg		
AA-2000A2	1/4"	0.5~9.9	5	40	2080	-10~60 C	Semi-automatic drain	ISO VG-32	3.97	1.8	9/Ctn/22 kg /1.8'	125
AA-2000A3	3/8"	0.5~9.9	5	40	2100	-10~60 C	Semi-automatic drain	ISO VG-32	3.97	1.8	9/Ctn/22 kg /1.8'	125
AA-2000A4	1/2"	0.5~9.9	5	40	2600	-10~60 C	Semi-automatic drain	ISO VG-32	3.97	1.8	9/Ctn/22 kg /1.8'	125
AA-2010A2	1/4"	0.5~9.9	5	40	2080	-10~60 C	Semi-automatic drain	ISO VG-32	3.26	1.48	10/Ctn/16 kg /0.8'	125
AA-2010A3	3/8"	0.5~9.9	5	40	2100	-10~60 C	Semi-automatic drain	ISO VG-32	3.26	1.48	10/Ctn/16 kg /0.8'	125
AA-2010A4	1/2"	0.5~9.9	5	40	2600	-10~60 C	Semi-automatic drain	ISO VG-32	3.26	1.48	10/Ctn/16 kg /0.8'	125

(Standard unit contains semi-auto-drain function when operating pressure below 0.5kg/cm².)

HAVA ŞARTLANDIRICI

AA-2080A
1" F.R.L unit



AA-2040A
1/2" F.R.L unit
AA-2060A
3/4" F.R.L unit



AA-2030A2
1/4" F.R.L unit
AA-2030A3
3/8" F.R.L unit



AA-2020A2
1/4" F.R.L unit
AA-2020A3
3/8" F.R.L unit



AP-2081
1" Regulator/Filter
AP-2061
3/8" Regulator/Filter
AP-2041
1/2" Regulator/Filter
AP-2031
3/8" Regulator/Filter
AP-2021
1/4" Regulator/Filter



AP-2082
1" Filter
AP-2062
3/4" Filter
AP-2042
1/2" Filter
AP-2032
3/8" Filter
AP-2022
1/4" Filter



AP-2083
1" Lubricator
AP-2063
3/4" Lubricator
AP-2043
1/2" Lubricator
AP-2033
3/8" Lubricator
AP-2023
1/4" Lubricator



AP-2084
1" Regulator
AP-2064
3/4" Regulator
AP-2044
1/2" Regulator
AP-2034
3/8" Regulator
AP-2024
1/4" Regulator



Model No.	Port Size	Range of Pressure (kg/cm ²)	Standard Filter Element (µm)	Optional Filter Element (µm)	Max. Flow Rate (l/min)	Temp. Range	Standard Drain	Lubricator oil	Weight		Packing Pcs/Ctn/G.W/Cuft (kg)	Lubricator Bowl Capacity (cc)
									lb	kg		
AA-2020A2	1/4"	0.5-8.5	30	5,20,40	2000	5-60 C	Semi-automatic drain	ISO VG-32	2.4	1.09	10/Ctn/9 kg /0.84'	125
AA-2020A3	3/8"	0.5-8.5	30	5,20,40	2000	5-60 C	Semi-automatic drain	ISO VG-32	2.4	1.09	10/Ctn/11.5 kg /1.01'	125
AA-2030A2	1/4"	0.5-8.5	30	5,20,40	1700	5-60 C	Semi-automatic drain	ISO VG-32	1.91	0.87	10/Ctn/9 kg /0.84'	130
AA-2030A3	3/8"	0.5-8.5	30	5,20,40	1700	5-60 C	Semi-automatic drain	ISO VG-32	1.91	0.87	10/Ctn/9 kg /0.84'	130
AA-2040A	1/2"	0.5-8.5	30	5,20,40	4000	5-60 C	Semi-automatic drain	ISO VG-32	4.4	2.0	4/Ctn/11.5 kg /0.8'	130
AA-2060A	3/4"	0.5-8.5	30	5,20,40	4500	5-60 C	Semi-automatic drain	ISO VG-32	4.4	2.0	4/Ctn/11.5 kg /0.8'	130
AA-2080A	1"	0.5-8.5	30	5,20,40	5000	5-60 C	Semi-automatic drain	ISO VG-32	8.8	4.0	4/Ctn/18.5 kg /2.4'	130

(Standard unit contains semi-auto-drain function when operating pressure below 0.5kg/cm².)

HAVA ŞARTLANDIRICI

AA-2021
1/8" F.R.L unit
AA-2121
1/4" F.R.L unit



AA-2031
1/8" F.R.L unit
AA-2131
1/4" F.R.L unit



AA-2022
1/4" F.R.L unit
AA-2023
3/8" F.R.L unit
AA-2024
1/2" F.R.L unit



AA-2032
1/4" F.R.L unit
AA-2033
3/8" F.R.L unit
AA-2034
1/2" F.R.L unit



AA-2022FR
1/4" Regulator/Filter
AA-2023FR
3/8" Regulator/Filter
AA-2024FR
1/2" Regulator/Filter



AA-2022F
1/4" Filter
AA-2023F
3/8" Filter
AA-2024F
1/2" Filter



AA-2022L
1/4" Lubricator
AA-2023L
3/8" Lubricator
AA-2024L
1/2" Lubricator



AA-2022R
1/4" Regulator
AA-2023R
3/8" Regulator
AA-2024R
1/2" Regulator



AA-2120FR
1/4" Regulator/Filter
(Aluminum cup)



AA-2120F
1/4" Filter
(Aluminum cup)



Model No.	Port Size	Range Of Pressure (kg/cm ²)	Standard Filter Element (µm)	Max. Flow Rate (l/min)	Temp. Range	Standard Drain	Lubricator oil	Weight		Packing Pcs/Ctn/G.W/Cuft (kg)	Lubricator Bowl Capacity (cc)
								lb	kg		
AA-2021	1/8"	0.5-9.9	20	1000	5-60 C	Semi-automatic drain	ISO VG-32	1.43	0.65	30/Ctn/20 kg /1.3'	40
AA-2022	1/4"	0.5-9.9	20	1750	5-60 C	Semi-automatic drain	ISO VG-32	3.75	1.7	12/Ctn/22 kg /1.7'	125
AA-2023	3/8"	0.5-9.9	20	1950	5-60 C	Semi-automatic drain	ISO VG-32	3.75	1.7	12/Ctn/22 kg /1.7'	125
AA-2024	1/2"	0.5-9.9	20	2200	5-60 C	Semi-automatic drain	ISO VG-32	3.75	1.7	12/Ctn/22 kg /1.7'	125
AA-2031	1/8"	0.5-9.9	20	1000	5-60 C	Semi-automatic drain	ISO VG-32	1.76	0.8	24/Ctn/23 kg /1.36'	40
AA-2032	1/4"	0.5-9.9	20	1750	5-60 C	Semi-automatic drain	ISO VG-32	4.52	2.05	12/Ctn/25 kg /2.2'	125
AA-2033	3/8"	0.5-9.9	20	1950	5-60 C	Semi-automatic drain	ISO VG-32	4.52	2.05	12/Ctn/25 kg /2.2'	125
AA-2034	1/2"	0.5-9.9	20	2200	5-60 C	Semi-automatic drain	ISO VG-32	4.52	2.05	12/Ctn/25 kg /2.2'	125
AA-2121	1/4"	0.5-9.9	20	1000	5-60 C	Semi-automatic drain	ISO VG-32	1.43	0.65	30/Ctn/20 kg /1.3'	40
AA-2131	1/4"	0.5-9.5	20	1000	5-60 C	Semi-automatic drain	ISO VG-32	1.76	0.8	24/Ctn/23 kg /1.36'	40

(Standard unit contains semi-auto-drain function when operating pressure below 0.5kg/cm².)

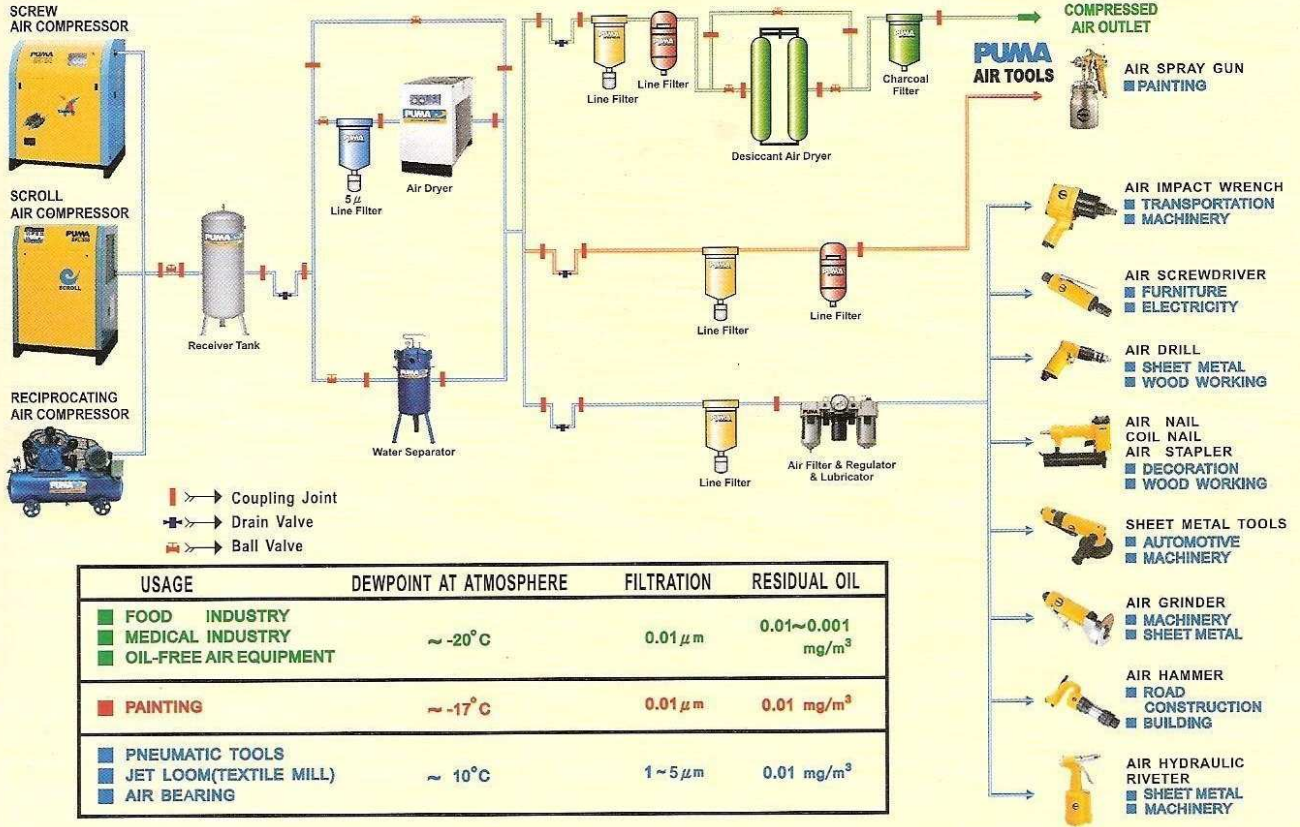
BASINÇ DÖNÜŞÜM TABLOSU

Bar	KPa	Kg/cm ²	MPa	Psi
1	100	1.02	0.1	14.5
0.981	98.1	1	0.098	14.22
10	1000	10.197	1	145.036

DEBİ DÖNÜŞÜM TABLOSU

LPM l/min	CMH m ³ /hr	CFM ft ³ /min	GPM(U.K.) gal ³ /min	GPM(U.S.A.) gal ³ /min
1	0.06	0.03532	0.220	0.2642
16.667	1	0.5887	3.667	4.404
28.3153	1.699	1	6.229	7.481
4.5455	0.2727	0.1605	1	1.2011
3.785	0.2271	0.1337	0.8325	1

BASINÇLI HAVA HATTI KURULUM ŞEMASI



DÖNÜŞÜM FAKTÖRLERİ

1. Tork

1 ft-lb = 1.356 nm = 0.138 kg-m
1 nm = 0.738ft-lb = 0.102 kg-m

2. Basınç

1 bar = 1.020 kg/cm² = 14.504 psi
1 kg/cm² = 14.220 psi = 0.981 bar

3. Debi

1 cfm = 28.3 l/min
1 M³/hr = 1.667 l/min

4. Uzunluk

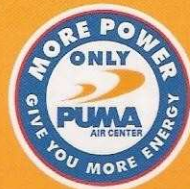
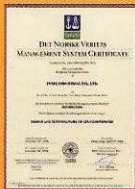
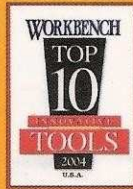
1 m = 39.371 in = 3.281 ft
1 ft = 12 in = 0.305 m
1 in = 25.4mm

5. Ağırlık

1 lb = 0.454 kg = 16 onces
1 kg = 2.205 lb = 35.274 onces

6. Güç

1 kw = 1.341 hp
1 hp = 0.746 kw



PUMA products , reliable quality



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