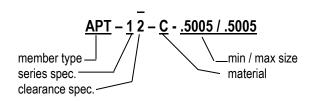
WESTERN GAGE CORPORATION

3316-A Maya Linda • Camarillo, CA 93012-8059 (800) 423 5062 (Toll free) • (805) 445 1410 (local) • (805) 445 7530 (FAX) Visit us on line at www.westerngage.com

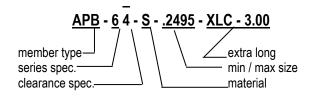
AIR GAGE ORDER CODE CHECKING . . .

QUICK REFERENCE GUIDE --see Western Gage's Dimensional Air Gage Buyer's Guide for complete information on air gage members

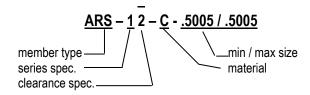
SAMPLE AIR GAGE PART NUMBERS



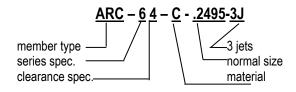
(air probe, thru, Spec 12, chrome, size)



(air probe, blind, Spec 64, steel, size, extra long)



(air ring, shoulder, Spec 12, chrome, size)



(air ring, center, Spec 64, chrome, size, 3 jet)

AIR PROBE THREADS SERIES 10, 40 & 50

Air Gage Size Above-Incl.	Dash <u>No</u> .	Thread <u>Size</u>	
.059120	-3	.10-32	UNF
.120300	-4	.25-28	UNF
.300485	-3	.10-32	UNF
.485860	-4	.25-28	UNF
.860-UP	-8	.50-20	UNF

For handles, hoses & fittings ... see Accessories – page 10

CHECKLIST FOR ORDERING AIR PROBES & AIR RING GAGES

(1)	Gaging member type	order code
	Air Probe, thru-hole	APT
	Air Probe, blind	APB
	Air Probe, super blind	APS
	Air Ring, center jet	ARC
	Air Ring, shoulder	ARS
	Air Ring, extra close	

(2) Series specification . . . Select the series listing the readout type to be used from page 4, then complete the gaging member specification by changing the last digit of the series number to show the clearance class. See the Buyer's Guide for additional information on selecting clearance specs. Equivalent specs for Mahr-Federal Products gages are given on page 4.

(3)	Material	order code
	Steel	S
	Chrome	C
	Carbide	W
	D-2 Premium Tool Steel	V

(4) Size or sizes of setting masters . . .

Gaging members for Series 10 to 50 readouts require that both minimum and maximum setting master sizes be specified. Series 60 thru 80 members require only one size.

(5) Special requirements . . .

Modifications required for the application such as:

Three Jets - add suffix "-3J" to order code. (Two jet members are furnished unless otherwise specified)

Extra length - add suffix "-XLC" and the dimension required from jet to handle [Dim "C"]. (Extra length is required for small air probes to gage deep holes.)

Other Specials - for modification to standard blanks not requiring a custom drawing -- add suffix "-SP" and specify modifications in remarks field.

(6) Special marking . . .

Gaging member sizes are marked on all members. Customer tool numbers will be marked when requested. Numbers with more than ten characters are subject to additional charge.

SETTING MASTER ORDER CODES & PRICING NOTES . . .

CHECKLIST for ORDERING SETTING MASTERS

(1)	Specify member type Ring Gage, Master Ring Gage, Go Ring Gage, NoGo	order code RGM RGG RGN
	Plug Gage, Master Plug Gage, Go Plug Gage, NoGo Plug Gage, Go/NoGo set	PGM PGG PGN PGU
	Set Disc, (A.G.D. style 3) Set Disc, (A.G.D. style 1)	SDS SDL

(2) Specify class tolerance . . .

Select class tolerance Z thru XXX (see price table.) Bilaterally toleranced master gages are recommended for air gage applications.

(3)	Material	order code
	Steel	S
	Chrome	C
	Carbide	W

(4) Specify size(s) of setting master . . .

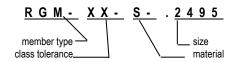
Sizes are assumed to be in inches unless followed by "mm" (millimeters) ... Careful checking of required size can avoid expensive mistakes.

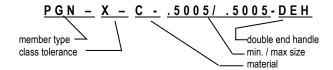
(5)	Select handle type	(Plug gages only)
	Single end handle	SEH
	Double end handle	
	Member only	M/O

(6) Specify marking . . .

Size and class tolerance are marked on all master gages. Customer tool numbers up to ten characters will be marked at no charge.

SAMPLE MASTER GAGE PART NUMBERS





(1) MIN - MAX MASTER SETS . . .

Quantity discounts apply only to gages of the exact same size.

(2) CALIBRATION CERTIFICATES . . .

Prices shown include a certificate of calibration showing the actual size measurements obtained by Western's ISO/IEC 17025:2005 accredited laboratory technicians in our temperature-controlled gage lab, using NIST traceable standards per ANS/NCSL Z540-1-1994.

(3) MASTER GAGES, GO & NO-GO GAGES A.G.D class tolerances . . .

Western's Master gages are finish lapped with the A.G.D. class tolerances split bilaterally. e.g. A master gage with the A.G.D. class tolerance listed as .000020" will be finished to the size specified \pm .000010". Unless explicitly specified as Go and No-Go gages when ordered, ring and plug gages are finished to bilateral gage tolerances. GO & NO-GO gages are finished with the A.G.D. standard tolerances taken unilaterally into the tolerance zone for the work piece. Price schedules for unilateral toleranced gages are the same as those for master gages of the same size and class.

TOLERANCE CONVENTIONS	
Master gages	Bilateral split tolerance
(rings, plugs or set discs)	
Go ring gages (max size)	Unilateral minus tolerance
NoGo ring gages (min size)	Unilateral plus tolerance
Go plug gages (min size)	Unilateral plus tolerance
NoGo plug gages (max size)	Unilateral minus tolerance

REPAIR & CALIBRATION SERVICES

• RE-CALIBRATION OF Plain Ring gages,

Plug gages & Set discs

Size (above includi	<u>ing)</u>	<u>per member</u>
inch/(mm)	-,	
.040060	(1.02-1.52)	
.060123	(1.52-3.12)	
.123-2.010	(3.12-51.05)	
2.010-4.760	(51.05-120.90)	
4.760-6.260	(120.90-159.00)	
6.260-9.010	(159.00-228.85)	
Above prices apply	to class tolerance	es Z through XX , add
75% to the above p	orices for XXX me	mbers

• REBUILDING OF SETTING MASTERS . . .

Setting masters -- AGD standard ring gages, plug gages and setting discs will be rebuilt or replaced at 95% of the new chrome gage cost after evaluation. Inspection fee waived if approved on original PO.

(\$85.00 minimum repair / calibration charge per order)

RE-SIZING OF STEEL MASTERS . . .

Re-sizing of ring gages upward	or plug gages downward
0.002 max. stock removal	75% of new steel \$
0.02 max. stock removal	85% of new steel \$

ORDERING INFORMATION . . .

TERMS OF PAYMENT

Payment terms are net 30 from invoice date and subject to credit approval. All international orders must be prepaid in U.S. dollars via wire transfer or credit card.

DELIVERY TERMS

F.O.B. Camarillo, Ca. Customer is responsible for risk of loss during transit.

MINIMUM ORDER

The minimum purchase per order is \$85.00 for all standard catalog products.

RESTOCKING CHARGE

All sales are final. However, under certain conditions, we may allow the customer to return standard products subject to a 15% restocking charge. Custom finished air gage members and setting master are non-returnable.

CANCELLATIONS

Cancellations will be subject to applicable material and labor charges for work in progress as determined by Western Gage.

LIMITED WARRANTY . . .

Western Gage Corporation backs it's gaging products to perform as stated for a period of 12 months from the time of shipment. Normal wear, user maltreatment such as contaminated air supply, voltage surges, and physical damage are exceptions to this warranty. Repairs or adjustments, will be done, if necessary, at no charge provided the equipment is delivered to Western Gage's Camarillo facility at customer's expense. No liability for consequential damages or costs other than repair or replacement of defective components is expressed or implied.

INTERCHANGEABILITY DATA . . .

FOR DUAL MASTER SYSTEMS . . .

SERIES 10 READOUTS

- Western Gage Corporation
- Edmunds Gage
- Moore Products
- Air Gage Products
- Sheffield A E columns
- Other adjustable type gages & adjustable air-electronic columns

SERIES 40 READOUTS

• Sheffield flow meter (glass tube) columns (air gage members with two Ø.078" nozzles). Series 40 members are not available in sizes below .323".

SERIES 50 READOUTS

 Sheffield flow meter columns used with small nozzle gaging members. These members require the use of fractional amplification scales:

<u>Jet size</u>	Scale correction
0.078	full amplification
0.047	3/4 amplification
0.031	1/2 amplification
0.023	3/8 amplification

FOR SINGLE MASTER SYSTEMS . . .

SERIES 63 READOUTS

Mahr-Federal Dimensionair D-5000, D-8000 / EAG-32XXX Scale ±.00075" Tool Code 20

SERIES 64 READOUTS

Mahr-Federal Dimensionair D-2500, D-4000 / EAG-31XXX Scale ±.0015" Tool Code 50

SERIES 71 READOUTS

Mahr-Federal Dimensionair D-20000, D-32000 / EAG-34XXX $Scale \pm .00015"$ Tool Code 5

SERIES 72 READOUTS

Mahr-Federal Dimensionair D-10000, D-16000 / EAG-33XXX Scale ±.0003" Tool Code 10

SERIES 85 READOUTS

Mahr-Federal Dimensionair D-1250 / EAG-30XXX Scale ± .003" Tool Code 100

SERIES 22 TOOLING

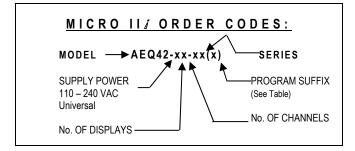
Mahr-Federal Universal Dimensionair

AIR GAGE READOUTS . . .

MICRO III DIGITAL READOUTS

MODEL AEQ42. <u>Micro III</u> Digital Air Gage Readout

Basic Model AEQ 42 with single input circuit, one seven digit backlit LCD display 81 segment bar graph, high - low limit markers, RS-232 & USB serial data port, process control outputs, CE certified, and power cord.

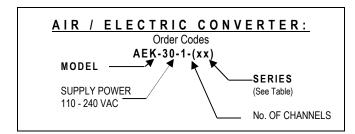


COMMON CONFIGURATIONS

WGC P/N	DESCRIPTION
AEQ-42-11-XX	Single Channel, Single Display
AEQ-42-12M-XX	Dual Channel (A-B Display)
AEQ-42-22-XX	Dual Channel (A & B Displays)
AEQ-42-22M-XX	Dual Channel (A, A-B Displays)
AEQ-42-32N-XX	Dual Channel (A, B, A-B Displays)
AEQ-42-33-XX	Triple Channel (A, B & C Displays)
AEQ-42-33M-XX	Triple Channel (A, A-B, A-C Displays)
AEQ-42-44-XX	Quad Channel (A, B, C, D Displays)
AEQ-42-14A-(XX)	1DSP Auto Select
Consult Factory for Additional Configurations	

AIR GAGE READOUT FITTINGS Series 60-70

ACF-60	Fitting, <i>Micro IIi</i> p Ser. 60
ACF-70	Fitting, <i>Micro Ili</i> p Ser. 70
ACF-80	Fitting, for use on Mahr-Federal comparators
	D1250-D8000/EAG-31,-32xxx
ACF-90	Fitting, for use on Mahr-Federal comparators
	D10, 000-D32, 000/EAG-33, -34xxx



AEK 3X-1-(XX)

AEK 3X-2-(XX)

AEK 3X-3-(XX)

AEK 3X-4-(XX)

PSR-30 Power Supply (110v)

Replacement part, MILLI-CHECK Readouts only

PSR-31 Power Supply (220v)

Replacement part, MILLI-CHECK Readouts only

READOUT FITTINGS, Series 10-50

ACA-0 Chuck adapter -- male flare

ACA-1 Chuck adapter -- female, quick disconnect

ACA-3 Chuck adapter -- .19-32 UNF

ACA-4 Chuck adapter -- .25-28 UNF

ACA-8 Chuck adapter -- .50-20 UNF

AIR FILTERS for all Readouts

AFR-12 / 13 Production filter & regulator assembly (regulator, pre-filter, and coalescing filter with automatic bowl dump)

AFA-1 Filter, 1.1 oz

(Replacement for comparator mini-filters)

AFA-3 Filter element only

FOOT SWITCH & Mini Printer Accessory Pack

AFS-2-(X) Foot switch for remote output (For use with **Micro II & IIi** readouts only)

AFS-1 Foot switch for remote output (For use with Micro-Air readouts only)

AFS-5-(X) Heavy duty foot switch for remote output

(For use with Micro II & IIi readouts only)

(-P Print, -T TIR)

AIR GAGE ACCESSORIES . . . FOR ALL SERIES . . .

Series 10. 40 & 50

7	,	001100 10, 10 (
Air Gage Size	Dash	Thread
Above-Incl.	<u>No</u>	<u>Size</u>
.059120	-3	.19-32 UNF
.120300	-4	.25-28 UNF
.300485	-3	.19-32 UNF
.485860	-4	.25-28 UNF
.860 - UP	-8	.50-20 UNF

AIR PROBE THREADS.

AIR PROBE THREADS,	Series 60. 70	. 80
,		,

Thread
<u>Size</u>
.38-32 UNEF
.28-40 UNS
.38-32 UNEF

See Western Gage's Dimensional Air Gage Buyer's Guide for application

ACCESSORIES for Series 10 thru 50 gages

ACCESSORIES, Series 10 - 50

AHH-3	Handle & hose assembly - 10-32 UNF
AHH-4	Handle & hose assembly25-28 UNF
8-HHA	Handle & hose assembly50-20 UNF
A111 2	Handle and 10 20 HNF

AHL-3	Handle only 10-32 UNF
AHL-4	Handle only25-28 UNF
AHL-8	Handle only50-20 UNF

ASC-3	Short coupling & hose - 10-32 UNF
ASC-4	Short coupling & hose25-28 UNF

ASC-8	Sho	ort c	oupling 8	ho:	se50-20 UNF
401.0	٥.				40.00.111.15

AHR-3	Rt. Angle adapter - 10-32 UNF

AHR-4 Rt. Angle adapter - .25-28 UNF

AHR-8 Rt. Angle adapter - .50-20 UNF

ALTERNATE FITTINGS, Series 10 - 50

AFQ-2	Male quick disconnect160 hose
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AFQ-4 Female quick disconnect - male 1/8 NPT

REPAIR PARTS, Series 10 - 50

1110 1	۸:- b	/	10E	ı D \
AH()-4	Air hose	oniv (.125	LU.)

AHO-5 Air hose only (.160 I.D.)

ACCESSORIES for Series 60 thru 80 gages

ACCESSORIES, Series 60 - 80

AHA-63	Hose assembly, 3 ft38-32 UNEF
AHA-65	Hose assembly, 5 ft38-32 UNEF
AHA-66	Hose assembly, 6 ft38-32 UNS
AHA-73	Hose assembly, 3 ft28-40 UNS
AHL-62	Handle/ext., 2 in x .38-32 UNEF
AHL-64	Handle/ext., 4 in x .38-32 UNEF
AHL-66	Handle/ext., 6 in x .38-32 UNEF
AHL-72	Handle/ext., 2 in x .28-40 UNEF
AHL-74	Handle/ext., 4 in x .28-40 UNEF
AHD-60	Heavy duty handle 6 in x Ø1.20
AHM-64	Medium duty handle 4 in x Ø.74
AHM-66	Medium duty handle 6 in x Ø.74
AHR-6	Right Angle adapter, .38-32 UNEF

AIR RING ACCESSORIES, Series 60 - 80

(See listing under air probes for hose assemblies)

REPAIR PARTS, Series 60 - 80

AOR-10 O-ring kit for series 60, 10 pcs AOR-7 O-ring kit for series 70, 10 pcs

HOSE FITTINGS, Series 60 - 80

AKM-60 Hose Fitting, Male, .38-32 UNEF AKF-60 Hose Fitting, Female, .38-32 UNEF AHO-6 Air hose only (.312 O.D. x .188 I.D.)

AFF-2 Male flare - 1/8 NPT

ACA-1 Female quick disconnect - Ø.50" shank

AFS-0 Set lock adapter - male flare

AHO-2 Air hoes only (4.000mm I.D. 6.000mm O.D

AFF-0 Female flare fitting (.160 I.D. hose)

AOR-3 O-rings for -3 accessories, 10 pcs

AOR-4 O-rings for -4 accessories, 10 pcs

AOR-8 O-rings for -8 accessories, 10 pcs

AIR GAGE ACCESSORIES CONT. & TAPER GAGES . . .

MISCELLANEOUS ACCESSORIES FOR GAGES

AIR RING STANDS & GUIDE CHUTES, ALL SERIES

ABA - () Air ring gage bench stand, factory mounted:

(Consult factory for complete order code)

ABV - () Guide chute, Vee type, factory mounted, including bench stand:

- -9 Sizes .100 to .183 (Single end)
- -10 Sizes .100 to .183 (Double end)
- -11 Sizes .183 to .300 (Single end)
- -12 Sizes .183 to .300 (Double end)
- -21 Sizes .300 to .760 (Single end)
- -22 Sizes .300 to .760 (Double end)
- -31 Sizes .760to 1.760 (Single end)
- -32 Sizes .760to 1.760 (Double end)
- -41 Sizes 1.760to 3.010 (Single end)
- -42 Sizes 1.760to 3.010 (Double end)

MANIFOLDS, Series 10, 60, 70, 80

AMD-2M	2-Way manifold, match fitting
AMD-2T	2-Way manifold, toggle valve
AMD-3T	3-Way manifold, toggle valve
AMD-4T	4-Way manifold, toggle valve
AMD-5T	5-Way manifold, toggle valve
	additional channels consult factory

(Specify series & model when ordering)

EXTRA POWER SUPPLY

PSR-2	Power Supply, Remote	
	(Replacement part for Micro-Air readouts only)	

LVDT GAGING

	LVD1 GAGING
LVS-1	LVDT gaging cartridges
	For <i>Micro II</i> readout
LVS-2	LVDT gaging cartridges
	For GageChek / Metro readout
EVD-1	VeeCheck LVDT OD gage
	.060300 diameter range
EVD-2	VeeCheck LVDT OD gage
	.090600 diameter range
EVD-3	VeeCheck LVDT OD gage
	.100 – 1.100 Range

TAPER GAGES

Air gages for A.N.S.I. Standard Machine Tool Tapers (3.500"/ft. per A.N.S.I. B5.10)

Order codes specify either air ring (ATR) for external or male member measurement or air probe (ATP) for internal or female member measurement, followed by A.N.S.I. Taper number, which is followed by WGC Series number. Masters conform to ISO-1947 Grade AT1, AT2 or AT3.

		Gage Line
Order Code	Taper No.	Diam. X Length
ATP -20- (series #	[‡]) 20	.875" X 1.312"
ATR -20- (series #	[‡]) 20	.875" X 1.312"
ATP -30- (series #	[‡]) 30	1.250" X 1.875"
ATR -30- (series #	[‡]) 30	1.250" X 1.875"
ATP -40- (series #	^{‡)} 40	1.750" X 2.562"
ATR -40- (series #	[‡]) 40	1.750" X 2.562"
ATP -45- (series #	[‡]) 45	2.250" X 3.3125"
ATR -45- (series #	[‡]) 45	2.250" X 3.3125"
ATP -50- (series #	[‡]) 50	2.750" X 4.000"
ATR -50- (series #	/) 50	2.750" X 4.000"

Above prices are for 2-circuit air taper gage members with two jets per circuit, hard chrome wear surfaces, Grade AT2 setting master, hoses and fittings. <u>Micro II</u> air gage readout is not included (see page 5 or consult factory for application).

ATP or ATR master upgrade to AT1Price on application

Sample Taper Gage Order Code with Description ATP-40-10. Air Probe, Taper, 2 Circuit, series 10, chrome taper seating type, checks #40 standard machine tool taper per ANSI B5.10 (1.750 gage line diameter. X 2.562 length with 3.500" taper/ft); complete with hoses, fittings and min/max master per ISO 1947 Grade AT2.

See Western Gage's Dimensional Air Gage Buyer's Guide for additional information on specifying air gage components