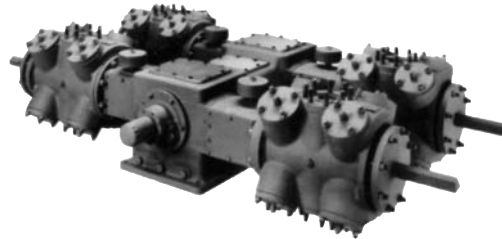


## Reciprocating gas compressors

### Eagle Series

#### Eagle 3000 Series



A heavy duty intermediate size compressor offered as a two-throw or four-throw unit, and with 3", 3-1/2", and 4-1/2" stroke. Frame load for this unit is 15,000 pounds Tension and Compression, making it a very economical compressor covering a wide selection of services.

SPECIFICATIONS	Two throw units models			Four throw units models		
	3230	3235	3245	3430	3435	3445
No. of crankthrows	2	2	2	4	4	4
Stroke (in.)	3	3.5	4.5	3	3.5	4.5
RPM, continuous	1800	1500	1200	1800	1500	1200
Piston speed, Ft./Min.	900	875	900	900	875	900
Rated horsepower	300	300	300	600	600	600
Crankshaft Cl. height (in.)	12	12	12	12	12	12
Overall width, max. (in.)	132	132	132	132	132	132
Overall length, max. (in.)	40	40	40	79	79	79
Crankshaft dia.- Drive end	3.875	3.875	3.875	3.875	3.875	3.875
Approx. wt. (lbs.)	2500	2500	2500	5200	5200	5200
Oil pump capacity (GPM)	20	20	20	20	20	20
Sump capacity (gallons)	8	8	8	18	18	18
Rod loads (tension) (lbs.)	15000	15000	15000	15000	15000	15000
Rod loads (compression) (lbs.)	15000	15000	15000	15000	15000	15000
Rod loads (combined) (lbs.)	30000	30000	30000	30000	30000	30000
Crankpin diameter (in.)	4.125	4.125	4.125	4.125	4.125	4.125
Main bearing (dia.) (in.)	7.00	7.00	7.00	7.00	7.00	7.00
Piston rod diameter (in.)	1.500	1.500	1.500	1.500	1.500	1.500

**COMPONENTS**

	3000
<b>Crankshaft</b>	
Crankpin Diameter	4.25
Bearing Journal Diameter	3.93
Main Bearing Diameter	7.00
Connecting Rod CL to CL	10.25
Connecting Rod Bearing Width	2.40
Connecting Rod Bolting Size	5/8-11
Connecting Rod Bushing Width	2.45
<b>Crosshead</b>	
Crosshead Surface Area/Side (Sq. In.)	38.0
Floating Crosshead Pin Diameter	3.0
<b>Piston rod diameter</b>	1.50

**Compressor materials Eagle Series\***

Components	Material
Crankcase	Grey iron
Crosshead guides	Grey iron
Crankshaft	Ductile iron
Connecting rods	Ductile iron 60-40-18
Connecting rod bearings	Steel backed babbit
Main bearings	Double row spherical roller
Connecting rod bushings	Phosphor bronze
Crossheads	Ductile iron 60-40-18 babbitt faced
Crosshead pin	Alloy steel 8620
Crosshead pin bushings	660 bronze
Piston rod	Alloy steel 4140
Rod packing rings	Non metallic full floating
All stress bolts	High tensile alloy
Pistons	Steel, grey iron, or alum
Standard piston rings	Non metallic
Standard rider rings	Non metallic
Valve cover O rings	Viton
Valve seats	Carbon steel
Valve guards	Carbon steel

\* API 618: Packages can be designed to API 618 third edition requirements including all piping, instrumentation and electrical systems. With some published exceptions, Knox Western compressors also meet the API 618 discipline.

**Eagle class double acting cylinder specifications \*\***

Bore Diameter (in.)	2	3	4	4.5	5	5.75	6	7	8	9	10	11	12	12.5	13	15	16	17	18.5
Cylinder Material	STL	STL	STL	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI	DI

Abbreviations: DI: Ductile Iron / STL: Steel

\*\* For Special Cylinder Applications, contact your Knox Western Representative..

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