

GLOBALGEAR SERIES

ENGINEERING DATA PACK





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	GLOBALGEAR MODEL NUMBER SYSTEM																	
	L	POIMIR SERIES		PUMP SIZE		MATERIALS OF CONSTRUCTION	PORTPOSITION & ROTATION	RELIEF VALVE	SEALING METHOD	SEALING TYPE	SEAL FLUSH	PORTTYPE	PORT SIZE	SHAFT DIMENSIONS	BUSHING&PIN	TUTRIDING	JACKETS	CLEARANCES
	G	G	2	1	0	I	Α	V	М	Α	1	Α	K	I	Α	0	0	0
POSITION #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

POS. 1 & 2 - PUMP SERIES

GG = Complete pump

GD = Drive module

POS. 3, 4, & 5 - PUMP SIZE

015 = Nominal 15 GPM at 1800 RPM

030 = Nominal 30 GPM at 1800 RPM

080 = Nominal 80 GPM at 1500 RPM

120 = Nominal 120 GPM at 1200 RPM

130 = Nominal 130 GPM at 1000 RPM

130 = Nominal 130 GFW at 1000 KFW

200 = Nominal 200 GPM at 1000 RPM

210 = Nominal 210 GPM at 800 RPM

250 = Nominal 200 GPM at 640 RPM 550 = Nominal 550 GPM at 500 RPM

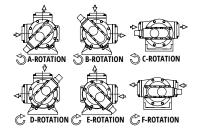
POS. 6 - MATERIALS OF CONSTRUCTION

I = Iron

S = Stainless steel

C = Cast steel

POS. 7 - PORT POSITION & ROTATION



POS. 8 - RELIEF VALVE

O = None

V = Internal

POS. 9 - SEALING METHOD

P = Packing

M = OB mechanical seal (in sealing chamber)

C = Cartridge mechanical seal

POS. 10 - SEAL TYPE

0 = No gland or packing

A = Standard packing (graphite/PTFE)

B = Ni-Resist Type 2 mechanical seal

C = Food-grade packing (pure PTFE)

E = Viton mechanical seal

F = PTFE mechanical seal

H = Abrasion-resistant mechanical seal (Viton)

K = Triple lip - cartridge seal (Viton)

L=Generalpurposesinglecartridgeseal(<7,500SSU)

N = Process single cartridge seal (<75,000 SSU)

P = Hard face cartridge seal (tungsten carbide/silicon carbide - Viton) with quench and drain gland

Q = Heavy-duty slurry (Viton)

R = Heavy-duty slurry (Chemraz)

POS. 11 - SEAL FLUSH

0 = None

A = Internal vent to suction (Plan 13)

POS. 12 - PORT TYPE

0 = None

A = FNPT

B = BSPT

C = ANSI 125# flanged (CI only)

D = ANSI 150# flanged

E = ANSI 250# flanged (CI only)

F = ANSI 300# flanged

G = ISO PN16 flanged

POS. 13 - PORT SIZE

0 = None

H = 1 1/2" or 40mm

I = 2" or 50mm

K = 3" or 80mm

L = 4" or 100mm

N = 6" or 150mm

POS. 14 - SHAFT DIMENSIONS

I = Inch seal & coupling

POS. 15 - BUSHING & PIN

A = Bronze idler & bracket

D = Carbon idler & bracket

E = High-temp carbon idler & bracket

I = TC idler & bracket with TC pin & hardened shaft

POS. 16 - TUTRIDING

0 = None

1 = Tutrided rotor head, idler, cover

2 = Tutrided rotor head, idler, cover, housing

POS. 17 - JACKETS

0 = None

1 = Cover only

2 = Bracket only

3 = Cover & bracket

POS. 18 - CLEARANCES

0 = Standard < 7.500 SSU, -100°F to 200°F

 $A = 7,500 \text{ to } 75,000 \text{ SSU } 200^{\circ}\text{F to } 300^{\circ}\text{F}$

B = 75,000 to 750,000 SSU

G* = <7,500 SSU 300°F to 450°F

 $H^* = 450^{\circ}F$ to $550^{\circ}F$

J = Chocolate clearance mods (include Class B clearance, bronze bushings, root drilled idler, & drilled rotor head)

* Pumps with G or H in this position include high-temppackage(paint, bearing, & gaskets)

LEGEND

NOT AVAILABLE ON ALL SIZES

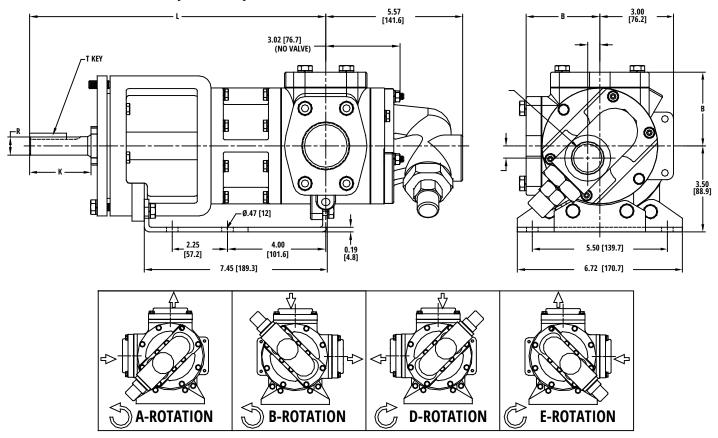
CI = Cast Iron

TC = Tungsten Carbide

FOR SPECIAL PUMPS WITH A FEATURE NOT DESCRIBED ABOVE							
PUMP SERIES	PUMP SIZE	JMP SIZE MATERIAL POSTPOSITION RELIEF VALVE SPECIALINDICATOR YEAROFDESIGN SEQUENTIAL SPECIALNUMBER					
GG	210	I	А	V	- X	01	56

GG015 - GG030 WITH ANGLE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS						
SHAFT DESIGN	K	R	Т	L		
DIMENSIONS	2.10" [53.3mm]	0.75" [19.1mm]	0.1875" x 0.1875" x 1.5" [4.7mmx4.7mmx38.1mm]	12.07" [306.6mm]		

PORT DIMENSIONS					
PORT DESIGN B					
ANSI	4.00" [101.6mm]				
FNPT	3.00" [76.2mm]				

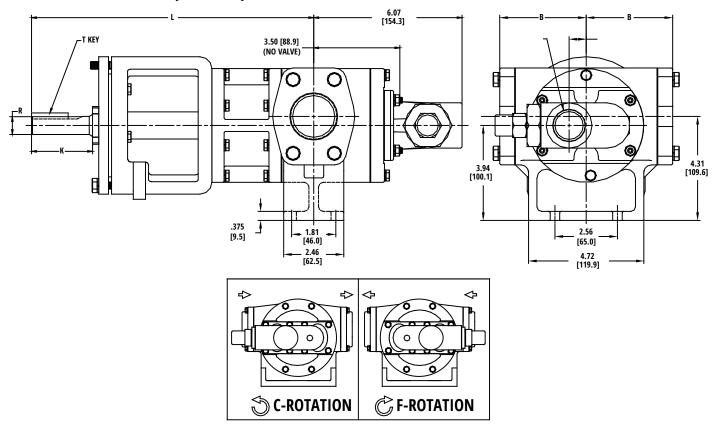
BACK PULL-OUT DIMENSIONS					
SIZE	MIN SPACER				
GG015	1.60" [40.6mm]				
GG030	2.22" [56.4mm]				

FLANGE FACE DESIGN						
SIZE	RATING	FACE				
1 1/2"	125/150#	Flat Face				
1 1/2"	250/300#	Raised Face				
2"	125/150#	Flat Face				
2"	250/300#	Raised Face				

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG015 - GG030 WITH SIDE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS						
SHAFT DESIGN	К	R	Т	L		
DIMENSIONS	2.36" [59.9mm]	0.75" [19.1mm]	0.1875" x 0.1875" x 1.5" [4.7mmx4.7mmx38.1mm]	11.56" [293.6mm]		

PORT DIMENSIONS					
PORT DESIGN B					
ANSI	4.54" [115.3mm]				
FNPT	3.55" [90.1mm]				

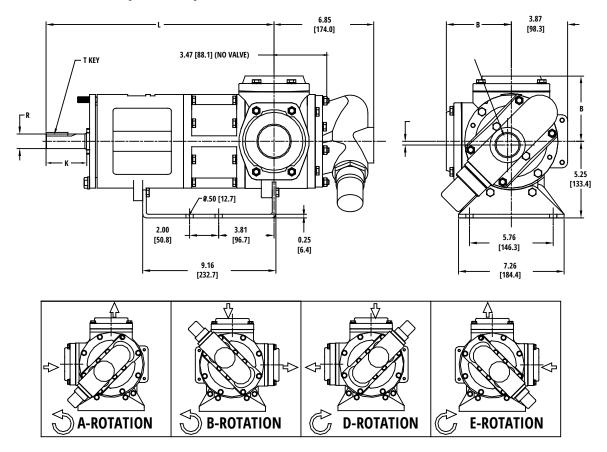
BACK PULL-OUT DIMENSIONS					
SIZE MIN SPACER					
GG015	1.60" [40.6mm]				
GG030 2.22" [56.4mm]					

FLANGE FACE DESIGN						
SIZE	RATING	FACE				
1 1/2"	125/150#	Flat Face				
1 1/2"	250/300#	Raised Face				
2"	125/150#	Flat Face				
2"	250/300#	Raised Face				

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG080 WITH ANGLE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS						
SHAFT DESIGN	К	R	Т	L		
DIMENSIONS	2.67" [67.8mm]	1.00" [25.4mm]	0.25" x 0.25" x 1.5" [6.4mmx6.4mmx38.1mm]	15.68" [398.3mm]		

PORT DIMENSIONS			
PORT DESIGN B			
2" FNPT	4.50" [114.3mm]		
ANSI 125#/150#	4.63" [117.6mm]		
2" ANSI 250#	5.81" [147.6mm]		

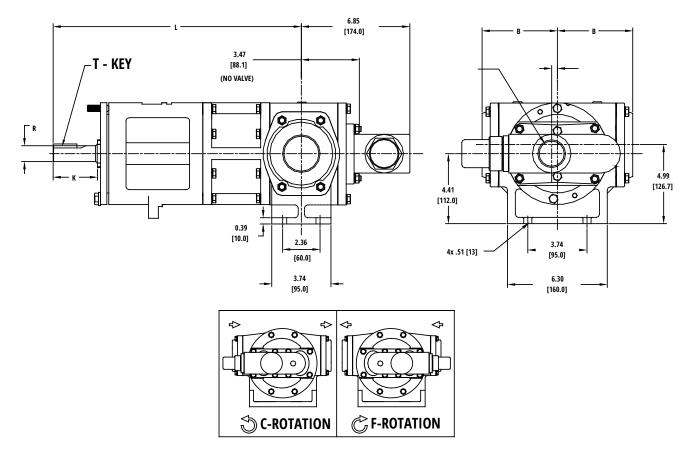
BACK PULL-OUT DIMENSIONS			
SIZE MIN SPACER			
GG080 2.80" [71.1mm]			

FLANGE FACE DESIGN			
SIZE RATING FACE			
2"	125/150#	Flat Face	
2"	250/300#	Flat Face	
3"	125/150#	Raised Face	
3"	250/300#	Raised Face	

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG080 WITH SIDE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS				
SHAFT DESIGN K R T L				
DIMENSIONS	2.67" [67.8mm]	1.00" [25.4mm]	0.25" x 0.25" x 1.5" [6.4mmx6.4mmx38.1mm]	15.68" [398.3mm]

PORT DIMENSIONS		
PORT DESIGN B		
FNPT (CI)	4.74" [120.4mm]	
ANSI 125#/150#	4.87" [123.7mm]	
2" ANSI 250#/300#	6.05" [153.7mm]	
3" ANSI 250#/300#	5.24" [133.1mm]	

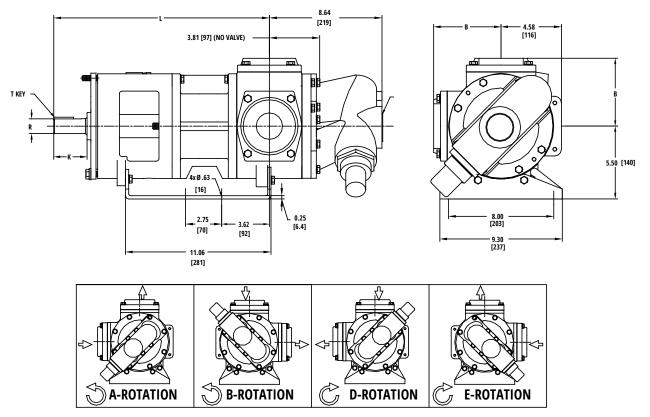
FLANGE FACE DESIGN			
SIZE RATING FACE			
2"	125/150#	Flat Face	
2"	250/300#	Flat Face	
3"	125/150#	Raised Face	
3"	250/300#	Raised Face	

BACK PULL-OUT DIMENSIONS			
SIZE MIN SPACER			
GG080 2.80" [71.1mm]			

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG120-GG130WITHANGLEPORTS(CI&SSONLY)MOUNTINGDIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS				
SHAFT DESIGN K R T L				
DIMENSIONS	2.41" [61.2mm]	1.125" [28.6mm]	0.25" x 0.25" x 2" [6.4mmx6.4mmx50.8mm]	16.38" [416.1mm]

PORT DIMENSIONS		
PORT DESIGN B		
2" FNPT	5.12" [130mm]	
2" ANSI 150#	5.19" [131.8mm]	
3" ANSI 125#/150#	5.25" [133.4mm]	
3" ANSI 250#/300#	5.62" [142.7mm]	

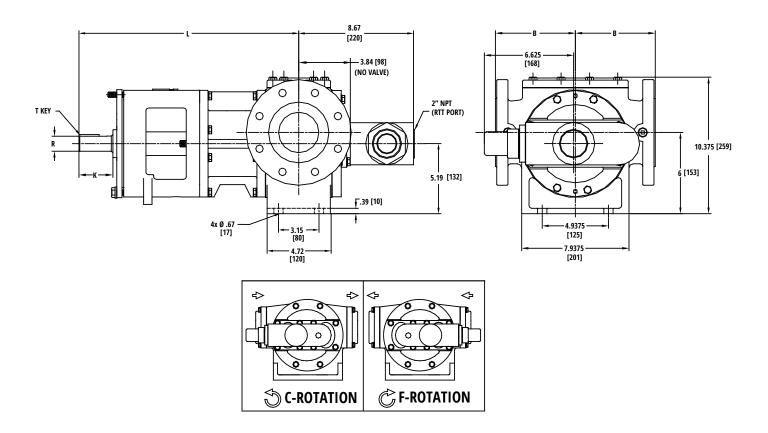
FLANGE FACE DESIGN			
SIZE RATING FACE			
2"	125/150#	Flat Face	
2"	250/300#	Flat Face	
3"	125/150#	Raised Face	
3"	250/300#	Raised Face	

BACK PULL-OUT DIMENSIONS		
SIZE MIN SPACER		
GG120	3.31" [84.1mm]	
GG130	3.73" [94.7mm]	

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG120-GG130WITHSIDEPORTS(CI,SS,&CS)MOUNTINGDIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS				
SHAFT DESIGN K R T L				
DIMENSIONS	2.41" [61.2mm]	1.125" [28.6mm]	0.25" x 0.25" x 2" [6.4mmx6.4mmx50.8mm]	16.36" [415.5mm]

PORT DIMENSIONS		
PORT DESIGN B		
3" ANSI 125# (CI)	5.95" [151.1mm]	
3" ANSI 150# (CS)	5.87" [149.1mm]	
3" ANSI 300# (SS)	6.22" [158mm]	

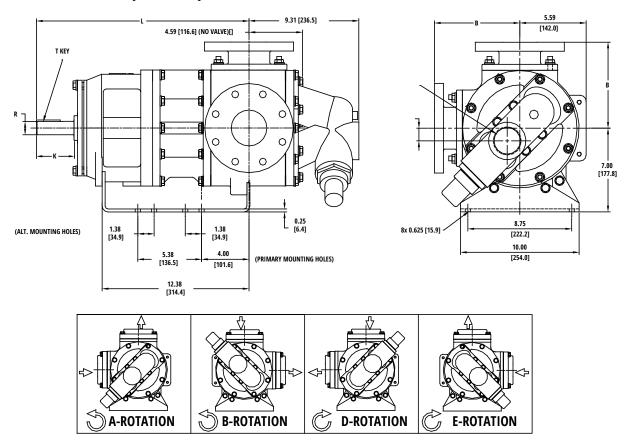
FLANGE FACE DESIGN		
SIZE	RATING	FACE
3"	125/150#	Raised Face
3"	250/300#	Raised Face

BACK PULL-OUT DIMENSIONS		
SIZE	MIN SPACER	
GG120	3.31" [84.1mm]	
GG130	3.73" [94.7mm]	

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG200 - GG210 WITH ANGLE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS				
SHAFT DESIGN	K	R	Т	L
DIMENSIONS	3.04" [77.2mm]	1.125" [28.6mm]	0.25" x 0.25" x 2" [6.4mmx6.4mmx50.8mm]	17.85" [453.4mm]

PORT DIMENSIONS		
PORT DESIGN B		
2" FNPT (200 Size Only)	6.56" [166.6mm]	
ANSI Flange	7.19" [182.6mm]	

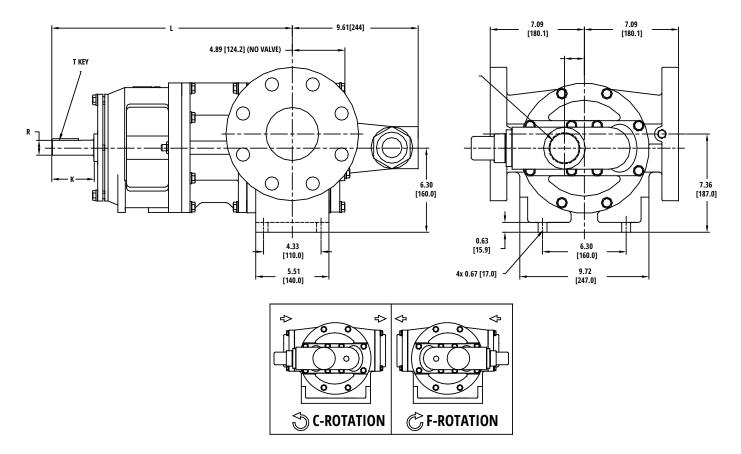
BACK PULL-OUT DIMENSIONS		
SIZE	MIN SPACER	
GG200	4.01" [101.9mm]	
GG210	4.61" [117.1mm]	

FLANGE FACE DESIGN		
SIZE RATING FACE		FACE
2 1/2"	125#	FlatFace(GG200Only)
3"	125/150#	Flat Face
3"	250/300#	Flat Face
4"	125/150#	Raised Face
4"	250/300#	Raised Face

NOTE: Inconjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG200 - GG210 WITH SIDE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



	S	HAFT DIMENSION	S	
SHAFT DESIGN	K	R	Т	L
DIMENSIONS	3.04" [77.2mm]	1.125" [28.6mm]	0.25" x 0.25" x 2" [6.4mmx6.4mmx50.8mm]	17.56" [446mm]

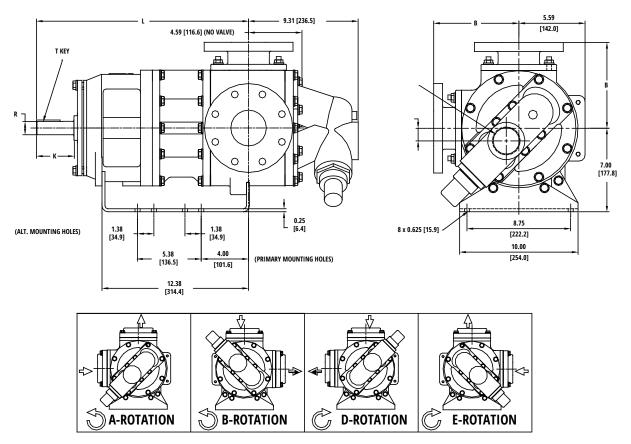
BACK PULL-OUT DIMENSIONS		
SIZE	MIN SPACER	
GG200	4.01" [101.9mm]	
GG210	4.61" [117.1mm]	

FLANGE FACE DESIGN		
SIZE	RATING	FACE
4"	125/150#	Flat Face
4"	250/300#	Flat Face

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG250 WITH ANGLE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS				
SHAFT DESIGN	K	R	Т	L
DIMENSIONS	4.30" [109.2mm]	1.438" [36.5mm]	0.375" x 0.375" x 2.5" [9.6mmx9.6mmx63.5mm]	19.25" [489mm]

PORT DIMENSIONS		
PORT DESIGN B		
ANSI Flange	7.19" [182.6mm]	

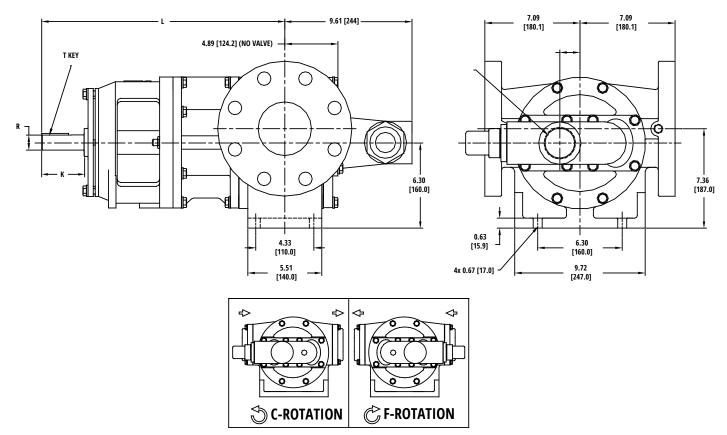
BACK PULL-OUT DIMENSIONS				
SIZE MIN SPACER				
GG250	4.73" [120.1mm]			

FLANGE FACE DESIGN					
SIZE	FACE				
2 1/2"	125#	FlatFace(GG200Only)			
3"	125/150#	Flat Face			
3"	250/300#	Flat Face			
4"	125/150#	Raised Face			
4"	250/300#	Raised Face			

NOTE: Inconjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG250 WITH SIDE PORTS MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



SHAFT DIMENSIONS							
SHAFT DESIGN K R T L							
DIMENSIONS	4.30" [109.2mm]	1.438" [36.5mm]	0.375" x 0.375" x 2.5" [9.6mmx9.6mmx63.5mm]	18.96" [481.6mm]			

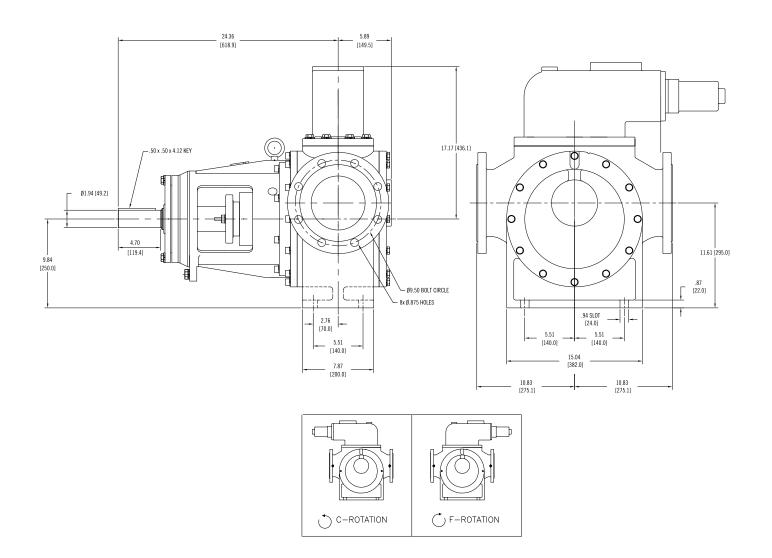
BACK PULL-OUT DIMENSIONS				
SIZE MIN SPACER				
GG250 4.73" [120.1mm]				

FLANGE FACE DESIGN				
SIZE	RATING	FACE		
4"	125/150#	Flat Face		
4"	250/300#	Flat Face		

NOTE: Inconjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG550WITH6"SIDEPORTS (CI, SS, & CS) MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



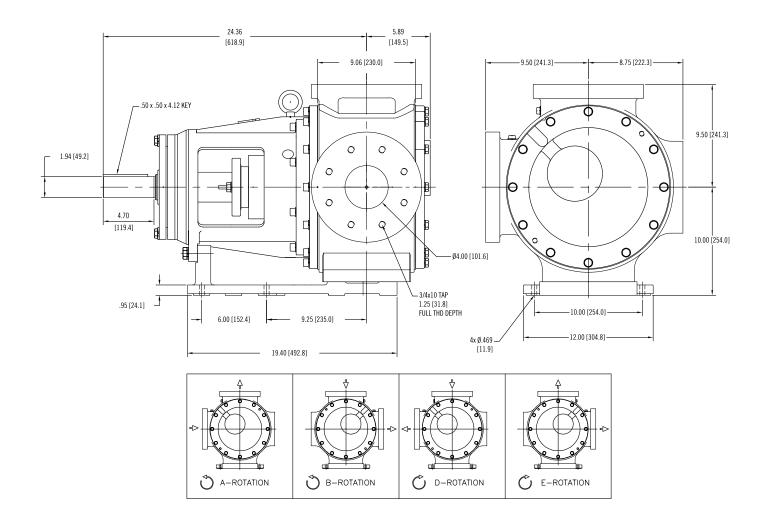
BACK PULL-OUT DIMENSIONS				
SIZE MIN SPACER				
GG550 7.18" [182.4mm]				

FLANGE FACE DESIGN					
SIZE RATING FACE					
6"	125/150#	Raised Face			

NOTE: Inconjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

GG550WITH4" ANGLE PORTS (CIONLY) MOUNTING DIMENSIONS

All measurements are in inches [millimeters].



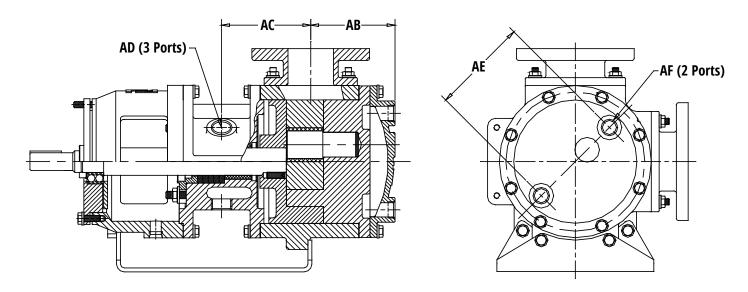
BACK PULL-OUT DIMENSIONS				
SIZE MIN SPACER				
GG550 7.18" [182.4mm]				

FLANGE FACE DESIGN						
SIZE RATING FACE						
4"	125/150#	Flat Face				

NOTE: Inconjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

JACKETS DATA & DIMENSIONS

All measurements are in inches [millimeters].



DIMENSIONS - 90° PORTS									
	JACKETED COVER JACKETED BRACKET					KET			
PUMP SIZE	А	AB AE			۸۲	AC		4.5	
	Inch	mm	Inch	mm	AF	Inch	mm	AD	
GG15/30	3.67"	93mm	2.04"	52mm	1/2" NPT	2.93"	74mm	1/4"-18NPT (2 Ports)	
GG120/130	4.37"	111mm	4.72"	120mm	3/4" NPT	4.93"	125mm	1" NPT	
GG200/210	5.31"	135mm	6.14"	156mm	3/4" NPT	5.62"	143mm	1" NPT	
GG250	5.31"	135mm	6.14"	156mm	3/4" NPT	5.62"	143mm	1" NPT	
GG550	7.80"	198mm	10.04"	255mm	3/4" NPT	N/A	N/A	N/A	

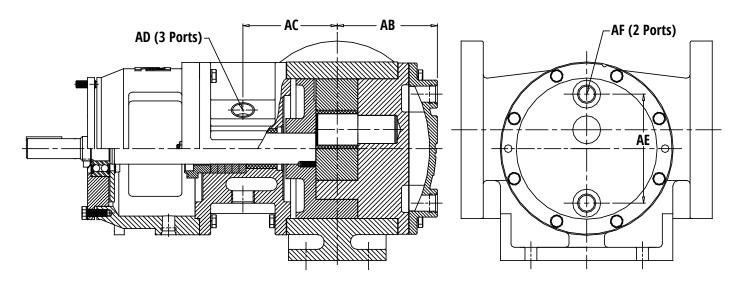
JACKET RATINGS		STEAM	HEATTRANSFERFLUID
°F		365	600
MAX TEMPERATURE	°C	185	316
MAY DDECCUDE	PSIG	150	150
MAX PRESSURE	BAR G	10.3	10.3

 $NOTE: Jacketed\ covers\ are\ not\ available\ with\ pumps\ with\ relief\ valves.\ Brackets\ also\ contain\ additional\ ports\ that\ access\ the\ seal\ chamber.\ Do\ not\ connect\ them\ to\ steam\ or\ HTF$

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

JACKETS DATA & DIMENSIONS CONTINUED

All measurements are in inches [millimeters].

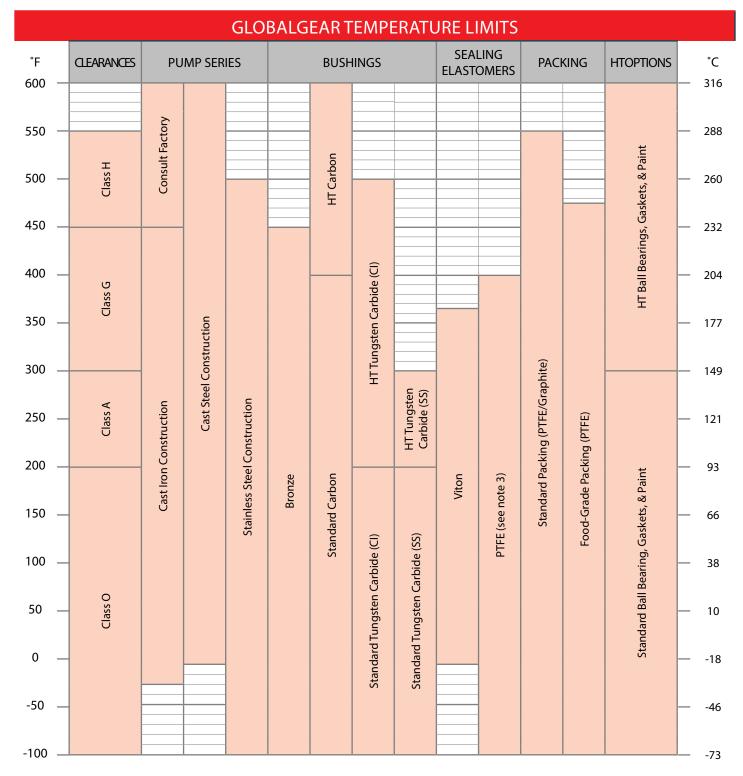


DIMENSIONS - 180° PORTS									
	JACKETED COVER				JACKETED BRACKET				
PUMP SIZE	А	ιB	А	Ε	۸۲	AC		4.0	
	Inch	mm	Inch	mm	AF	Inch	mm	m AD	
GG15/30	3.33"	85mm	2.04"	52mm	1/2" NPT	2.92"	74mm	1/4" NPT	
GG120/130	4.37"	111mm	4.72"	120mm	3/4" NPT	4.93"	125mm	1" NPT	
GG200/210	5.65"	144mm	6.14"	156mm	3/4" NPT	5.33"	135mm	1" NPT	
GG250	5.65"	144mm	6.14"	156mm	3/4" NPT	5.33"	135mm	1" NPT	
GG550	8.49"	216mm	10.04"	255mm	3/4" NPT	N/A	N/A	N/A	

JACKET	RATINGS	STEAM	HEATTRANSFERFLUID
MANTEMADEDATUDE	°F	365	600
MAX TEMPERATURE	°C	185	316
MAX PRESSURE	PSIG	150	150
	BAR G	10.3	10.3

 $NOTE: Jacketed \ covers \ are \ not \ available \ with \ pumps \ with \ relief \ valves. \ Brackets \ also \ contain \ additional \ ports \ that \ access \ the \ seal \ chamber. \ Do \ not \ connect \ them \ to \ steam \ or \ HTF$

NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.



 ${\tt NOTE:}\ 1. A pump's performance is dependent on more than just the temperature ranges of the component materials$

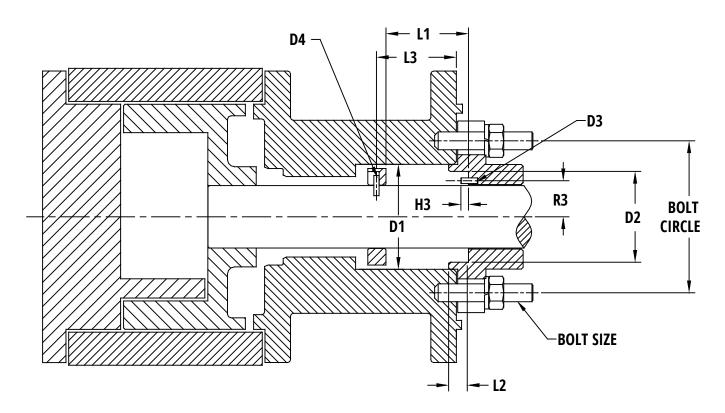
- 2. Pumps with extra clearances may have reduced flow rates when operated at lower temperatures
- $3. \, Pumps \, with \, PTFE \, seals \, also \, have \, PTFE-encapsulated \, Viton \, O-rings \, which \, are \, limited \, to \, 400^{\circ}F \, (204^{\circ}C)$

GLOBALGEAR MATERIALS OF CONSTRUCTION											
				AV	AILABIL	COMPRESSOR					
PART NAME	MATERIAL	STANDARD	COMMENTS	GGI	GGS*	GGC*	DUTY				
	Cast Iron (CI)	ASTM A48		S			S				
LIQUISING COVER	Tutrided CI	ASTM A48	Surface Hardened	0							
HOUSING COVER	Stainless Steel (SS)	ASTM A743, Grade CF8M	Cast Version of 316 SS		S						
	Cast Steel (CS)	ASTM A216, Grade WCB				S	0				
	Cast Iron (CI)	ASTM A48		S			S				
BRACKET, VALVE BODY	Stainless Steel (SS)	ASTM A743, Grade CF8M	Cast Version of 316 SS		S						
VALVE BODI	Cast Steel (CS)	ASTM A216, Grade WCB				S					
VALVE BLOCK-OFF PLATE	Steel	AISI 1018	NoContactwithPumpage	S*	S	S					
	Ductile Iron (DI)	ASTMA536,Grade80-55-06		S		S	S				
ROTOR HEAD, IDLER GEAR	Tutrided DI	ASTMA536,Grade80-55-06	Surface Hardened	0		0					
IDEEN GEAN	Stainless Steel (SS)	ASTMA743,GradeCF10SMnN	"Nitronic 60"		S						
	Carbon Steel (CS)	AISI 4140		S		S					
DOTOD CLIAFT	Hardened Steel	AISI 4140	Induction Hardened	0		0	S				
ROTOR SHAFT	Stainless Steel (SS)	ASTM A564, Grade 630	"Armco 17-4PH"		S						
	Hard-Coated SS	ASTM A564, Grade 630	Chrome Oxide Coated		0						
	Hardened Steel	AISI 1117	Case Hardened	S		S					
IDLER PIN	Stainless Steel (SS)	ASTM A564, Grade 630	"Armco 17-4PH"	0	S						
	Tungsten Carbide	Grade C2		0	0	0					
	Bronze	SAE CA932		S							
DUCUINGO	Standard Carbon	Carbon Graphite Resin		0	S	S	S				
BUSHINGS	High-Temp Carbon	Carbon Graphite		0	0	0					
	Tungsten Carbide	Grade C2		0	0	0					
CACKETC	Standard	Fiber with Nitril Binde	"Garlock" Style 3000	S							
GASKETS	High Temp	Graphite/316 SS	"Garlock"Style3125TC/SS	0	S	S					
BEARING CARRIER	Cast Iron (CI)	ASTM A48	NoContactwithPumpage	S	S	S					
COVER JACKET	COVER JACKET Ductile Iron (DI)		NoContactwithPumpage	0	0						
IACKETED DDACKET	Cast Iron (CI)	ASTM A48		O*							
JACKETED BRACKET	Stainless Steel (SS)	ASTM A276, Grade 316			0						

AVAILABILITY CODES	PUMP MODELS				
S = Standard material for this pump series	GGI = GlobalGear, Iron				
O = Optional material for this pump series	GGS = GlobalGear, Stainless Steel				
* Not available with GG550 pumps	GGC = GlobalGear, Cast Steel				
Relief valves not available with GG550 angle ported pumps	Compressor Duty: Standard Viton O-ring				

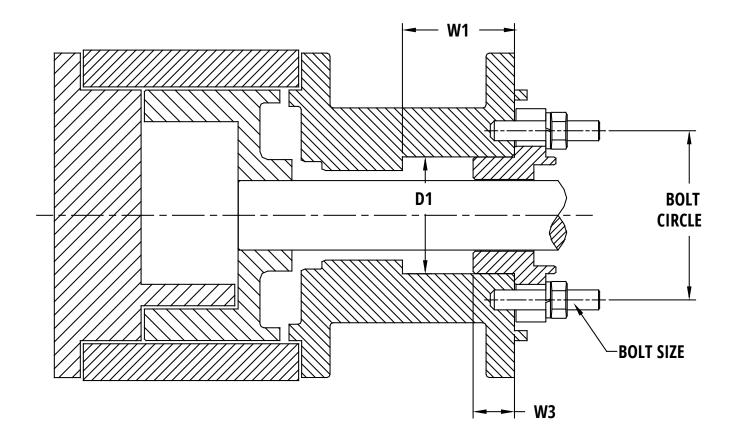
GLOBALGEARSEALCHAMBERDIMENSIONSMECHSEAL(OUTBOARDLOCATION,INCHSHAFT)

			GG15/30	GG80	GG120/130	GG200/210/250	GG550
	SHAFT DIAMETER	-	1.125"	1.375"	1.75"	1.75"	2.75"
	BOLT SIZE	-	4 x M10	2 x M10	2 x M12	2 x M12	2 x M12
	BOLT CIRCLE	-	3.13"	3.35"	4.25"	4.25"	5.90"
	CHAMBER DIAMETER	D1	2.00"	2.313"	2.75"	2.75"	4.50"
	SEAL WORKING LENGTH (STD. GLAND)	L1	1.49"	1.562"	1.86"	1.86"	2.63"
DIMENSION	SEAL WORKING LENGTH (OPT. GLAND)	L1	1.44"	1.812"	N/A	N/A	N/A
JIME	SEAT BORE DIAMETER	D2	1.75"	2.00"	2.50"	2.50"	3.50"
_	SEAT BORE LENGTH (MIN)	L2	0.616"	0.437"	0.50"	0.50"	0.55"
		D3	0.125"	0.125"	0.125"	0.125"	0.125"
	OPTIONAL GLAND PIN	R3	0.75"	0.86"	1.13"	1.13"	1.54"
		H3	0.08"	0.08"	0.12"	0.12"	0.094"
	CHAMBER DEPTH TO PIN HOLE	L3	1.26"	1.77"	1.89"	1.89"	N/A
	PIN HOLE DIAMETER	D4	0.13"	0.13"	0.13"	0.13"	N/A



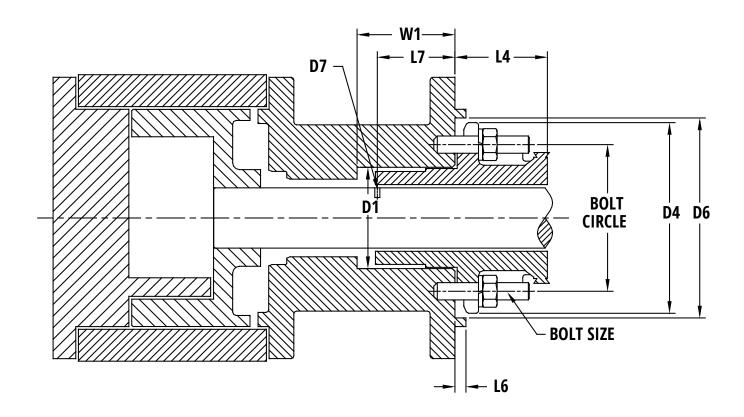
NOTE: In conjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

	GLOBALGEAR SEAL CHAMBER DIMENSIONS PACKING												
			GG15/30	GG80	GG120/130	GG200/210/250	GG550						
Ę	SHAFT DIAMETER	-	1.125"	1.375"	1.75"	1.75"	2.75"						
ISHA	BOLT SIZE	-	4 x M10	2 x M10	2 x M12	2 x M12	2 x M12						
NG NG	BOLT CIRCLE	-	3.13"	3.35"	4.25"	4.25"	5.90"						
)NOI	CHAMBER DIAMETER	D1	2.00"	2.313"	2.75"	2.75"	3.78"						
DIMENSION (INCHSHAFT)	CHAMBER LENGTH	H W1 1.69"		2.22"	2.43"	2.43"	2.95"						
	GLAND LENGTH	W3	0.64"	0.82"	0.68"	0.68"	1.14"						



NOTE: In conjunction without program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

	GLOBALGEAR SEAL CHAMBER DIMENSIONS CARTRIDGE SEAL												
			GG15/30	GG80	GG120/130	GG200/210/250	GG550						
	SHAFT DIAMETER	-	1.125"	1.375"	1.75"	1.75"	2.75"						
	BOLT SIZE	-	4 x M10	2 x M10	2 x M12	2 x M12	2 x M14						
E	BOLT CIRCLE	-	3.13"	3.35"	4.25"	4.25"	5.906"						
SHAFT)	CHAMBER DIAMETER	D1	2.00"	2.313"	2.75"	2.75"	3.78"						
	CHAMBER LENGTH	W1	1.69"	2.22"	2.43"	2.43"	2.95"						
DIMENSION (INCH	MAX SEAL DIAMETER	D4	3.75"	4.88"	5.60"	5.75"	N/A						
SIOI	MAX SEAL LENGTH	L4	2.95"	2.62"	4.40"	4.40"	4.66"						
MEN	GLANDOBSTRUCTIONDIAMETER	D6	2.87"	4.56"	5.65"	5.75"	N/A						
	GLAND OBSTRUCTION LENGTH L		0.25"	0.25"	0.44"	0.44"	N/A						
	CHAMBER DEPTH TO PIN HOLE	L7	1.26"	1.77"	1.89"	1.89"	N/A						
	PIN HOLE DIAMETER		0.13"	0.13"	0.13"	0.13"	N/A						



NOTE: In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data is approximate. Request a quotation for your specific application.

	GLOBALGEAR NPSH DATA														
	NPSHr FOR UP TO 750 SSU (FEET OF WATER)														
SIZE	150 RPM	250 RPM	350 RPM	450 RPM	550 RPM	750 RPM	950 RPM	1150 RPM	1450 RPM	1750 RPM					
GG015	1.4	1.6	1.8	2.1	2.4	3.0	4.5	6.2	8.6	11.3					
GG030	1.4	1.6	1.8	2.1	2.4	3.0	4.5	6.2	8.6	11.3					
GG080	1.5	1.8	2.2	2.7	3.4	5.2	7.7	11.2	15.0						
GG120	1.6	1.9	2.7	3.5	4.7	7.7	11.7	16.4							
GG130	1.6	1.9	2.7	3.5	4.7	7.7	11.7								
GG200	1.8	2.4	3.6	4.8	6.9	11.9	17.4								
GG210	1.8	2.4	3.6	4.8	6.9	11.9									
GG250	1.8	2.4	3.6	4.8	6.9	11.9									
GG550	3.4	6.2	10.5	15.8	24.0										

	NPSHr FOR UP TO 165 CST (METERS OF WATER)													
SIZE	150 RPM	250 RPM	350 RPM	450 RPM	550 RPM	750 RPM	950 RPM	1150 RPM	1450 RPM	1750 RPM				
GG015	0.4	0.5	0.5	0.6	0.7	0.9	1.4	1.9	2.6	3.4				
GG030	0.4	0.5	0.5	0.6	0.7	0.9	1.4	1.9	2.6	3.4				
GG080	0.5	0.5	0.7	0.8	1.0	1.6	2.3	3.4	4.6					
GG120	0.5	0.6	0.8	1.1	1.4	2.3	3.6	5.0						
GG130	0.5	0.6	0.8	1.1	1.4	2.3	3.6							
GG200	0.5	0.7	1.1	1.5	2.1	3.6	5.3							
GG210	0.5	0.7	1.1	1.5	2.1	3.6								
GG250	0.5	0.7	1.1	1.5	2.1	3.6								
GG550	1.0	1.9	3.2	4.8	7.3									

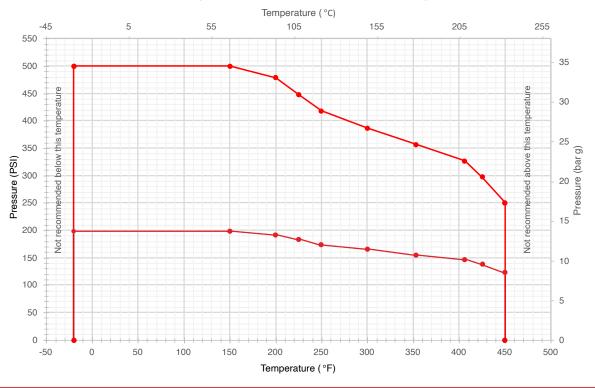
HIGH VISCOSITY CORRECTION FACTORS									
VISCOSITY	VISCOSITY CF VISCOSITY CF VISCOSITY								
2500 SSU / 550 cSt	1.3	25,000 SSU / 5500 cSt	2.7	250,000 SSU / 55,000 cSt	5.3				
5000 SSU / 1100 cSt	1.7	50,000 SSU / 11,000 cSt	3.1	500,000 SSU / 110,000 cSt	6.7				
10,000 SSU / 2200 cSt	2.0	100,000 SSU / 22,000 cSt	4.0	1,000,000 SSU / 220,000 cSt	10.7				

NOTE: For viscosity above 750 SSU (165 cSt), multiply the charted NPSHr value by the appropriate correction factor.

NPSHa (available) must be greater than NPSHr (required) for proper pump operation. Data shown here is for pumps with standard ports. Optional ports of different sizes may affect NPSH

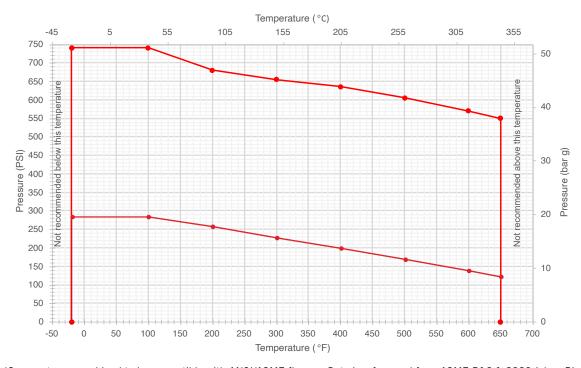
GLOBALGEAR FLANGE RATINGS (CAST IRON)

GlobalGear Flange Pressure - Temperature Ratings (Cast Iron)



GLOBALGEAR FLANGE RATINGS (CAST STEEL)

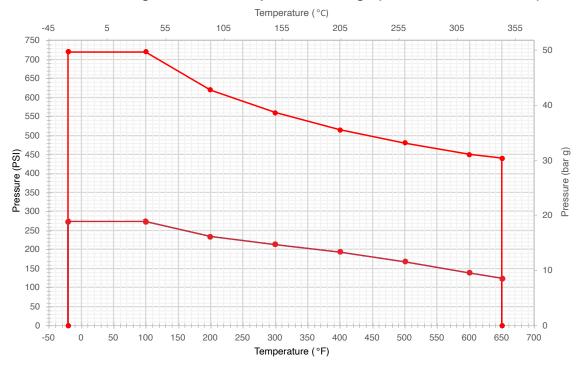
GlobalGear Flange Pressure -Temperature Ratings (Steel ASTM A216 WCB)



NOTE: GlobalGear ports are machined to be compatible with ANSI/ASME flanges. Data is referenced from ASME B16.1-2020 (class B). These charts show ratings for the flanges only. The maximum pump operating conditions must be considered. Consult the appropriate Ingersoll Rand pump catalog for the maximum allowable pressure and temperatures. These ratings are non-shock pressure.

GLOBALGEAR FLANGE RATINGS (STAINLESS STEEL)

GlobalGear Flange Pressure - Temperature Ratings (Stainless Steel CF - 8M)



NOTE: GlobalGear ports are machined to be compatible with ANSI/ASME flanges. Data is referenced from ASME B16.1-2020 (class B). These charts show ratings for the flanges only. The maximum pump operating conditions must be considered. Consult the appropriate Ingersoll Rand pump catalog for the maximum allowable pressure and temperatures. These ratings are non-shock pressure.

GG SERIES PUMPS NOZZLE LOADING DATA

GG SERIES PUMPS NOZZLE LOADING DATA											
DUMD CIZE	NOMINAL	PORT SIZE	MAX. FX	, FY, & FZ	MAX. MX, MY, & MZ						
PUMP SIZE	Inch	mm	Lbs	N	Lbs-ft	N-m					
66015.020	1.5"	40mm	113	500	188	255					
GG015-030	2"	50mm	150	667	250	339					
GG080	2"	50mm	150	667	250	339					
	2"	50mm	150	667	250	339					
55122.122	2.5"	65mm	150	667	312	424					
GG120-130	3"	80mm	225	1001	375	508					
	4"	100mm	300	1334	500	678					
	2"	50mm	150	667	250	339					
66200 210 250	2.5"	65mm	150	667	312	424					
GG200-210-250	3"	80mm	225	1001	375	508					
	4"	100mm	300	1334	500	678					
GG550	6"	150mm	450	2002	750	1017					

 $NOTE: In conjunction \ with our program \ of continuous testing \ and \ design \ upgrading, \ all \ specifications \ are subject to \ change \ without \ notice. \ All \ data \ is \ approximate. \ Request \ a \ quotation for your \ specific \ application.$

REGULATORY COMPLIANCE INFORMATION



The Global Gear Series pumps' technical file is lodged in accordance with Article 13(1)(b)(ii) of ATEX Directive 2014/34/EU of 26 February 2014

THE FOLLOWING STANDARDS WERE USED TO VERIFY CONFORMANCE:

2006/42/EC - The Machinery Directive

EN 1127-1:2011 – Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology

EN ISO 80079-36:2016 – Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements

ENISO80079-37:2016—Explosiveatmospheres-Part37:Non-electrical equipment for explosive atmospheres-Nonelectrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k"



The Global Gear Series pumps comply with the European Directive 2006/42/EC

THE FOLLOWING STANDARDS WERE USED TO VERIFY CONFORMANCE:

EN ISO 12100:2010 – Safety of machinery - General principles for design

EN 809:1998+A1:2009 – Pumps and pump units for liquids - Common safety requirements

 $2011/65/EU-The\,Restriction\,of\,Hazardous\,Substances\,Directive$

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