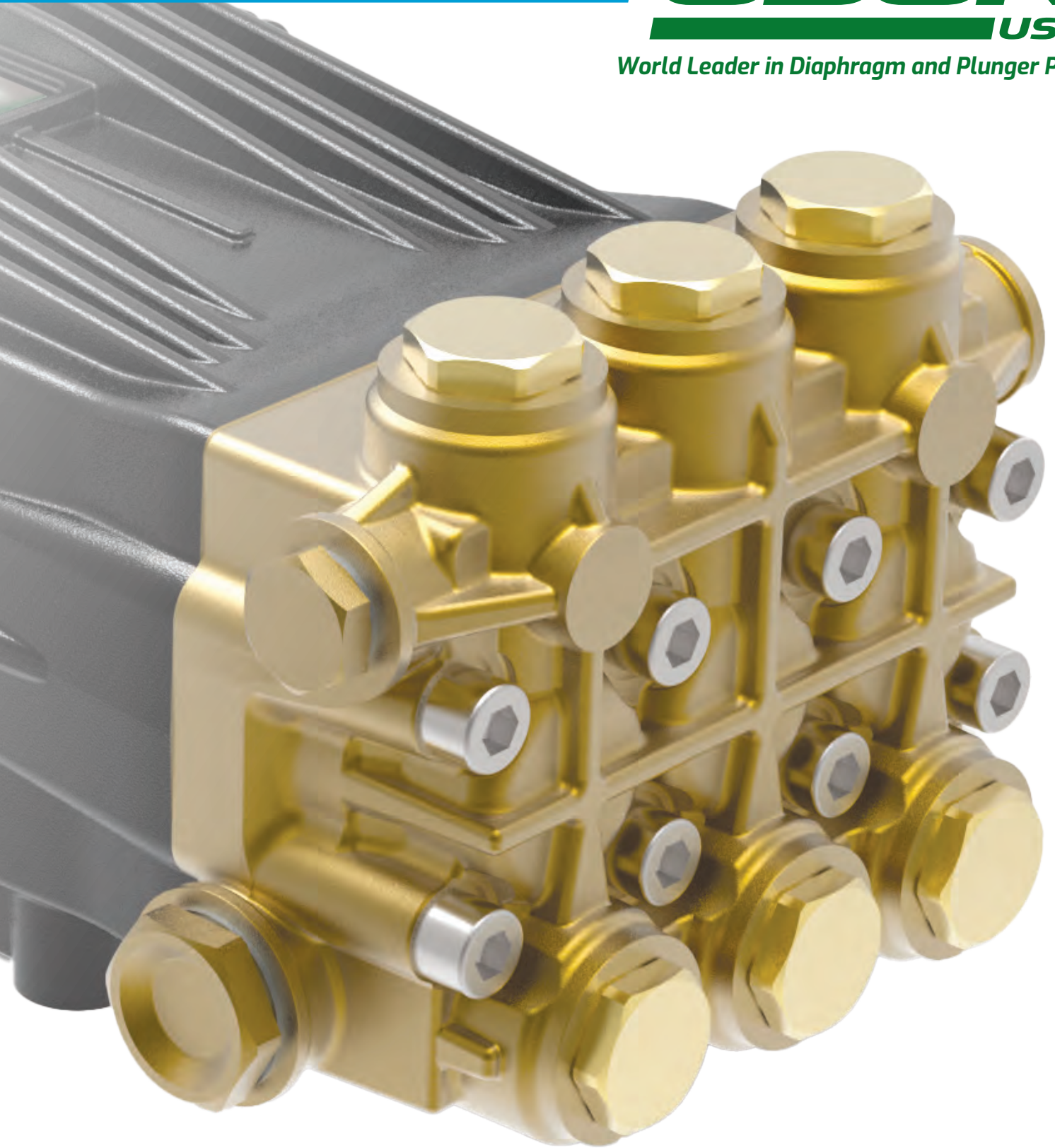
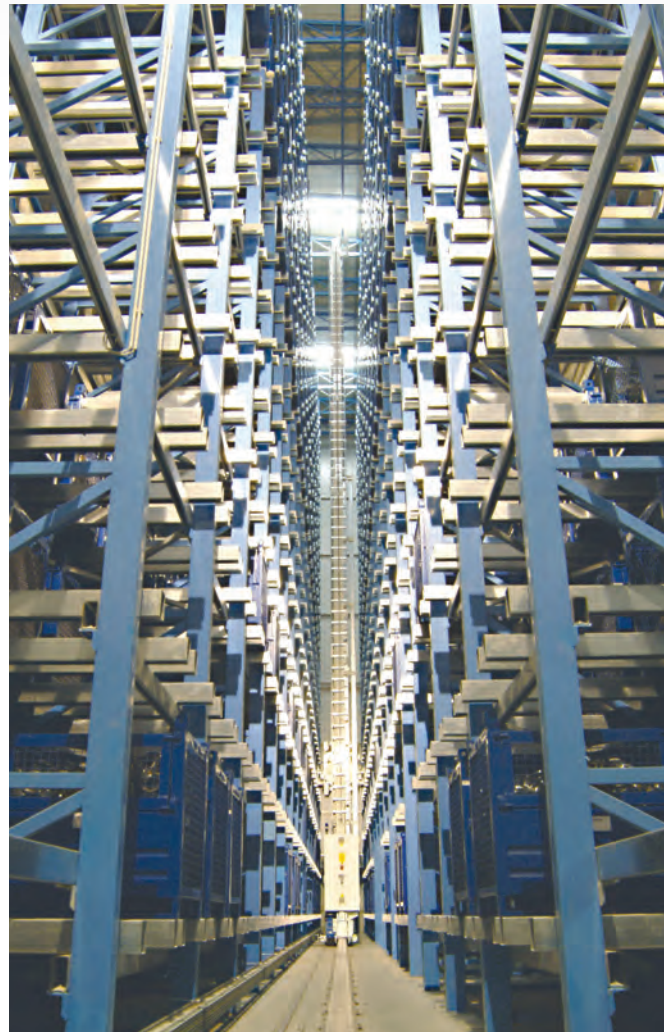


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World Leader in Diaphragm and Plunger Pumps



Plunger Pumps & Accessories
Product Catalog P225A



2	APPLICATIONS
3	PUMP FEATURES
4-5	PN SERIES PUMPS
6-7	B SERIES PUMPS
8-9	BK SERIES PUMPS
10-11	C SERIES PUMPS
12-13	CK SERIES PUMPS
14	CX SERIES PUMPS
15	CH SERIES PUMPS
16-18	NK SERIES PUMPS
19	NK 500 SERIES PUMPS
20	NH 500 SERIES PUMPS
21-22	GAMMA SERIES PUMPS
23	GAMMA-IL SERIES PUMPS
24	PENTA SERIES PUMPS
25	PENTA 600 SERIES PUMPS
26-27	VX SERIES PUMPS
28	VH SERIES PUMPS
28	VY SERIES PUMPS
29	VXX SERIES PUMPS
30	VX6 SERIES PUMPS
30	HX SERIES PUMPS
31	HXR SERIES PUMPS
32	HXR-MI SERIES PUMPS
33	CAR WASH PUMPS
34	TOOL COOLANT PUMPS
35	HIGH TEMPERATURE PUMPS
36-37	AGGRESSIVE ENVIRONMENT PUMPS
38-39	HYDRAULIC DRIVE ASSEMBLIES



PUMPS

40	GEAR REDUCERS
42	GEAR MULTIPLIERS / HYDRAULIC MOTORS / COMPONENTS
41	MOUNTING FLANGES / SHAFT COUPLERS
43	DRIVE BUSHINGS / MOUNTING RAILS / HARDWARE
44	BYPASS UNLOADERS
45	RELIEF VALVES
46	SAFETY VALVES / MISC. PLUMBING
47	FILTERS / GAUGES
48	SPRAY GUNS
48	FOAM GUNS
49	COMPLETE SPRAY GUNS
49	SPRAY TIP PERFORMANCE CHART
50	SPRAY WANDS / HOSES
51	PULSE VALVES / GAUGE PORT VALVE CAPS
52	SWIVELS
52	FITTINGS - STEEL, BRASS & POLYPROPYLENE
53	TOOLS / PUMP OIL
54-60	GENERAL INFORMATION / WARRANTY



ACCESSORIES



De-icing



Desalination



Fire Fighting



Car Wash



Disinfection



Construction



Food-Pharma



Water Jetting



Pressure Washing



Street Cleaning



Drilling



Mining



Misting



Oil-Gas

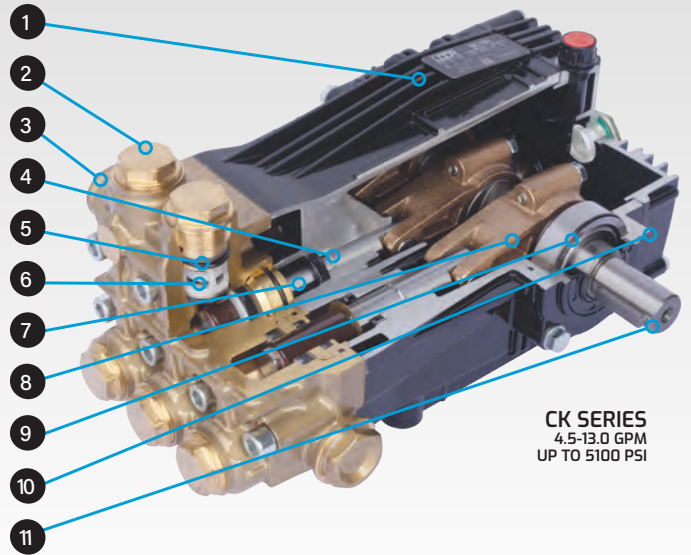


Sewer Jetting



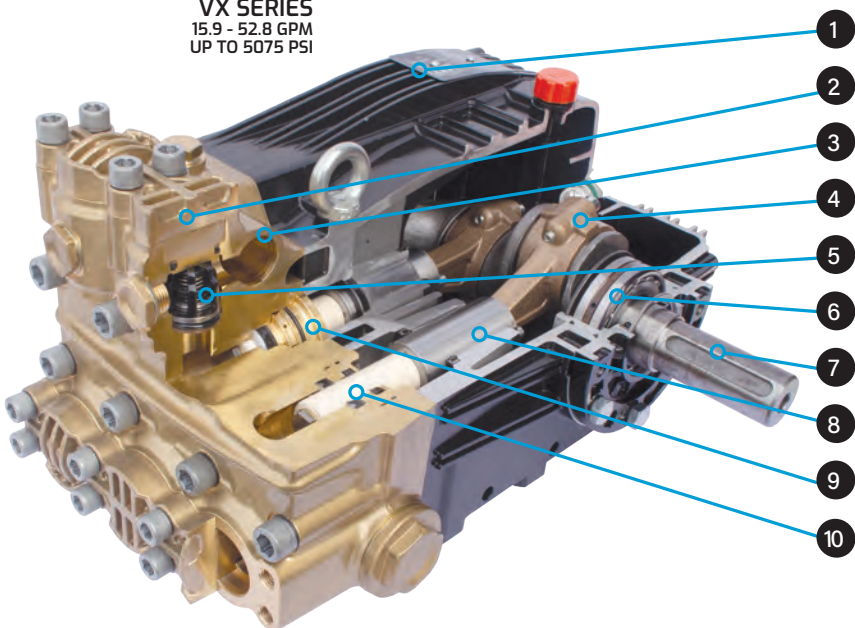
CK Series Pumps

- 1 Anodized Die-Cast Aluminum Crankcase
- 2 Large Diameter Valve Caps with Increased Thread Depth
- 3 Heavy Duty Brass Manifold with Internal and External Bracing
- 4 Stainless Steel Stepped Plunger Guide for Increased Seal Life
- 5 Bottom Mount O-Ring and Back-Up Ring to Prevent Thread Damage
- 6 Stainless Steel Conical Valve Assembly for Increased Efficiency
- 7 High-Polished Solid Ceramic Plungers
- 8 Heavy Duty Bronze Connecting Rods
- 9 Heavy Duty Tapered Roller Bearings
- 10 Deeper Back Cover for Increased Oil Capacity
- 11 Heat Treated Crank Shaft

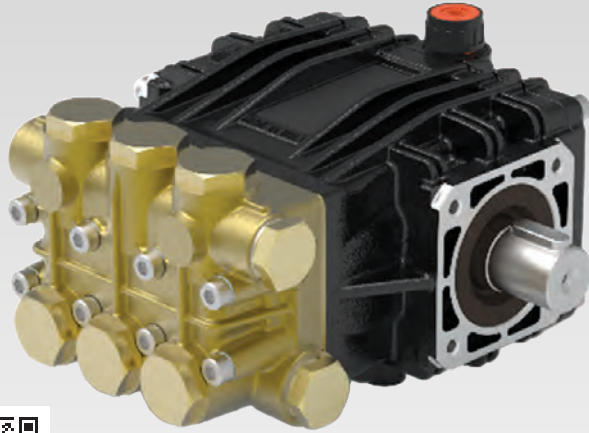


VX Series Pumps

VX SERIES
15.9 - 52.8 GPM
UP TO 5075 PSI



- 1 Anodized Die-Cast Aluminum Crankcase
- 2 Large Diameter Valve Caps with 1-Piece Cover Plate
- 3 Heavy Duty Brass Manifold with Internal and External Bracing
- 4 Heavy Duty Bronze Connecting Rods
- 5 Stainless Steel Conical Valve Assembly for Increased Efficiency
- 6 Heavy Duty Tapered Roller Bearings
- 7 Heat Treated Crank Shaft
- 8 Stainless Steel Stepped Plunger Guide for Increased Seal Life
- 9 Replaceable PTFE Coated Body Guides
- 10 High-Polished Solid Ceramic Plungers



- Brass Manifold
- Heat Treated Crankshaft
- Stainless Steel Piston Guides
- High Strength Aluminum Alloy
- Industrial Quality Ball Bearings and Needle Bearings
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Flat Base High Pressure Seals
- Dual Oil Sight Gauges
- 10.25 oz. Capacity Vented Oil Bath Crank Case
- 3/8" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

Solid Shaft Models 24mm Keyed Solid Shaft



Scan this QR Code for more information

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	PNC 02/10 S	0.5	2.0	1450	100	15mm	3.0mm	K	0.5 EBHP	6061.07	6061.01	12 lbs
	PNC 04/10 S	1.1	4.0	1450	100	15mm	5.5mm	D	1.0 EBHP	6061.07	6061.01	12 lbs
	PNC 06/10 S	1.6	6.0	1450	100	15mm	8.0mm	4	1.5 EBHP	6061.07	6061.01	12 lbs
	PNC 09/11 S	2.4	9.0	1595	110	15mm	12.5mm	S	2.5 EBHP	6061.07	6061.01	12 lbs
	PNC 11/17 S	2.9	11	2465	170	18mm	10.5mm	O	5 EBHP	6061.08	6061.01	12 lbs
	PNC 13/15 S	3.4	13	2175	150	18mm	12.5mm	S	5 EBHP	6061.08	6061.01	12 lbs
1750 RPM	PND 2.0/20 S	2.0	7.6	2030	140	15mm	9.4mm	U	2.7 EBHP	6061.07	6061.01	12 lbs
	PND 2.5/20 S	2.5	9.5	2030	140	15mm	10.5mm	O	3.4 EBHP	6061.07	6061.01	12 lbs
	PND 3.0/20 S	3.0	11.4	2030	140	15mm	12.5mm	S	4.1 EBHP	6061.07	6061.01	12 lbs
	PND 3.5/20 S	3.5	13.2	2030	140	18mm	10.5mm	O	4.7 EBHP	6061.08	6061.01	12 lbs
	PND 4.0/20 S	4.0	15	2030	140	18mm	12.5mm	S	5.4 EBHP	6061.08	6061.01	12 lbs
Rail Kit	8702.10	Standard 7/8" Rail Kit for PN, PK, B & BK Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. PNC 11/17 SL)



Scan this QR Code for more information

Direct Drive, Gas Engine Flange Models 3/4" Hollow Shaft, SAE J609-A Flange and Set Screw

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
3400 RPM	PNL 2.5/20 T	2.5	9.5	2030	140	15mm	6.5mm	F	4.0 HP Gas	6061.07	6061.01	13 lbs
	PNL 3.0/25 T	3.0	11.4	2465	170	15mm	7.5mm	H	6.5 HP Gas	6061.07	6061.01	14 lbs
	PNL 3.5/22 T	3.5	13.2	2175	150	15mm	9.0mm	M	6.5 HP Gas	6061.07	6061.01	14 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. PNL 3.0/20 TL)



Scan this QR Code for more information

Direct Drive, Electric Flange Models 5/8" Hollow Shaft with NEMA 56C Mounting Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	PND 0.5/20 Z	0.5	2.0	2030	140	15mm	2.0mm	1	.75 EBHP	6061.07	6061.01	13 lbs
	PND 1.0/20 Z	1.0	3.8	2030	140	15mm	5.0mm	B	1.5 EBHP	6061.08	6061.01	13 lbs
	PND 1.5/20 Z	1.5	5.7	2030	140	15mm	7.5mm	H	2.0 EBHP	6061.07	6061.01	13 lbs
	PND 2.0/20 Z	2.0	7.6	2030	140	15mm	9.4mm	U	2.7 EBHP	6061.07	6061.01	13 lbs
	PND 3.0/15 ZA*	3.0	11.4	1450	100	15mm	12.5mm	S	3.0 EBHP	6061.07	6061.01	11 lbs
	PND 3.0/20 Z	3.0	11.4	2030	140	15mm	12.5mm	S	4.1 EBHP	6061.07	6061.01	13 lbs
	PND 3.5/15 Z	3.5	13.2	2030	140	18mm	10.5mm	O	4.7 EBHP	6061.08	6061.01	13 lbs
3400 RPM	PND 4.0/15 Z	4.0	15.0	2030	140	18mm	12.5mm	S	4.0 EBHP	6061.08	6061.01	13 lbs
	PNL 2.0/20-Z	2.0	7.6	2030	140	15mm	5.0mm	B	3.0 EBHP	6061.07	6061.01	13 lbs
	PNL 3.0/20-Z	3.0	11.4	2030	140	15mm	7.5mm	H	4.0 EBHP	6061.07	6061.01	13 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. PND 1.5/20 ZL)
*Aluminum Manifold

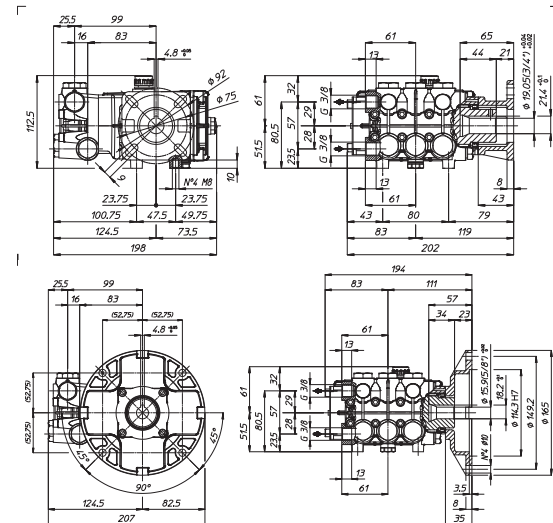
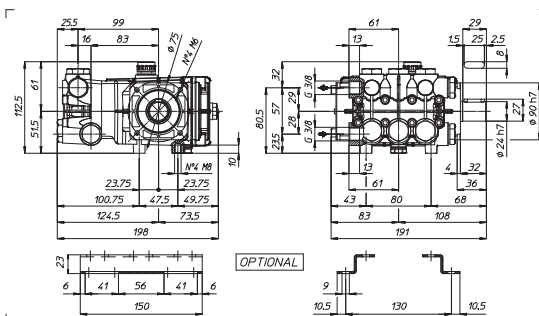


Scan this QR Code for more information

Gear Reduction, Gas Engine Models 3/4" Hollow Shaft. SAE J609-A Flange. 2.2:1 Gear Reduction

Gear Reduction	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
	PNC 11/17 GR	2.9	11	2465	170	18mm	10.5mm	O	6.5 HP Gas	6061.08	6061.01	18 lbs
	PNC 13/15 GR	3.4	13	2175	150	18mm	12.5mm	S	6.5 HP Gas	6061.08	6061.01	18 lbs

P Series Dimensional Drawings



Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937



- Brass Manifold
- Heat Treated Crankshaft
- Stainless Steel Piston Guides
- High Strength Aluminum Alloy Connecting Rods
- Industrial Quality Tapered Roller Bearings
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Flat Base High Pressure Seals
- Replaceable PTFE Coated Body Guides
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

Solid Shaft Models 24mm Keyed Solid Shaft



Scan this QR Code for more information

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BC 13/20 S	3.4	13.0	2900	200	15mm	18.0mm	9	6.7 EBHP	6061.B2	6061.02	20 lbs
	BC 15/20 S	4.0	15.0	2900	200	18mm	14.5mm	I	7.7 EBHP	6061.28	6061.02	20 lbs
	BC 18/20 S	4.9	18.5	2900	200	18mm	18.0mm	9	9.5 EBHP	6061.28	6061.02	20 lbs
	BC 21/20 S	5.5	21.0	2900	200	18mm	19.0mm	Y	10.8 EBHP	6061.28	6061.02	20 lbs
1750 RPM	BD 4.0/20 S	4.1	15.0	2030	140	15mm	18.0mm	9	5.6 EBHP	6061.B2	6061.02	20 lbs
	BD 4.0/30 S	4.1	15.0	2900	200	15mm	18.0mm	9	7.9 EBHP	6061.B2	6061.02	20 lbs
	BD 5.0/30 S	4.8	18.2	2900	200	18mm	14.5mm	I	9.3 EBHP	6061.28	6061.02	20 lbs
	BD 6.0/30 S	6.0	22.7	2900	200	18mm	18.0mm	9	11.6 EBHP	6061.28	6061.02	20 lbs

Rail Kit

8702.10

Standard 7/8" Rail Kit for PN, PK, B & BK Series Solid Shaft Pumps

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. PNC 11/17 SL)



Scan this QR Code for more information

Direct Drive, Gas Engine Flange Models 1" Hollow Shaft, SAE J609-B Flange and Set Screw

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
3400 RPM	BL 4.0/30 W	4.1	15.5	2900	200	15mm	10.0mm	5	11 HP Gas	6061.B2	6061.02	23 lbs
	BL 5.0/30 W	5.0	19.0	2900	200	15mm	12.0mm	6	14.5 HP Gas	6061.B2	6061.02	23 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BL 5.0/30 WL)



Scan this QR Code for more information

Direct Drive, Electric Flange Models 1-1/8" Hollow Shaft with NEMA 182/184 TC Mounting Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BD 4.0/20 U	4.1	15.5	2030	140	15mm	18.0mm	9	5.6 EBHP	6061.B2	6061.02	23 lbs
	BD 4.0/30 U	4.1	15.5	2900	200	15mm	18.0mm	9	7.9 EBHP	6061.B2	6061.02	23 lbs
	BD 5.0/30 U	5.0	19.0	2900	200	18mm	15.0mm	V	9.7 EBHP	6061.28	6061.02	23 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BD 5.0/30 UL)



Scan this QR Code for more information

Direct Drive, Hydraulic Flange Models

3/4" Hollow Shaft with 2 Bolt A-Flange Hydraulic Motor Mount

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BC 15/20 T MI	4.0	15.0	2900	200	15mm	19.0mm	Y	7.7 EBHP	6061.B2	6061.02	21 lbs
	BC 21/20 T MI	5.5	21.0	2900	200	18mm	19.0mm	Y	10.8 EBHP	6061.28	6061.02	21 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BD 5.0/30 UL)



Scan this QR Code for more information

Gear Reduction, Gas Engine Models

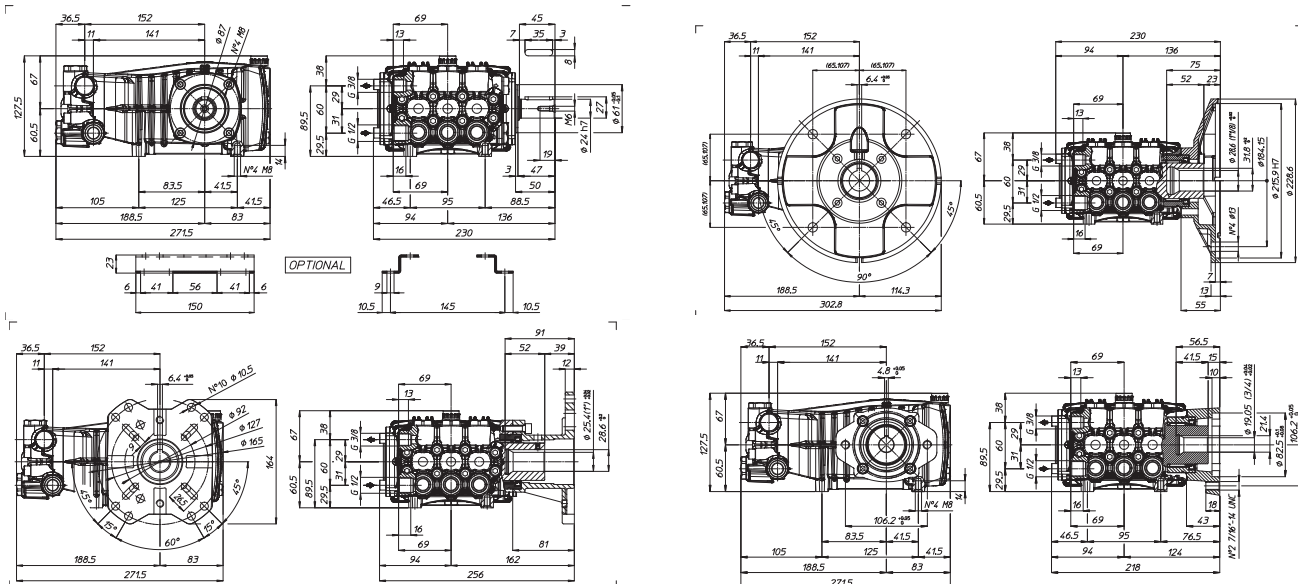
1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

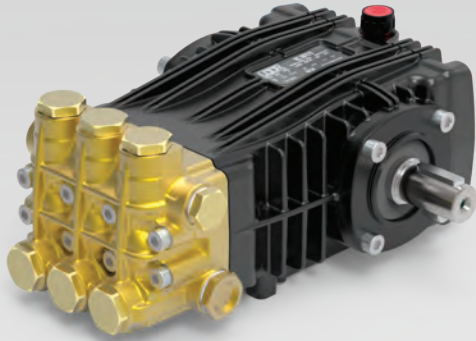
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	BC 13/20 GR	3.4	13.0	2900	200	15mm	18.0mm	9	9 HP Gas	6061.B2	6061.02	28 lbs
	BC 15/20 GR	4.0	15.0	2900	200	18mm	14.5mm	I	11 HP Gas	6061.B2	6061.02	28 lbs
	BC 18/20 GR	4.9	18.5	2900	200	18mm	18.0mm	9	14.5 HP Gas	6061.28	6061.02	28 lbs
	BC 21/20 GR	5.5	21.0	2900	200	18mm	19.0mm	Y	16 HP Gas	6061.28	6061.02	28 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BD 5.0/30 UL)

B Series Dimensional Drawings

Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937





- Heavy Duty Brass Manifold with External and Internal Bracing
- Heavy Duty Bronze or High Strength Aluminum Alloy Connecting Rods.
- Large Diameter Brass Valve Caps with Increased Thread Depth
- Reinforcing Ring on Inlet and Discharge Ports
- Deeper Back Cover for Increased Oil Capacity
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

Solid Shaft Models 24mm Keyed Solid Shaft



Scan this QR Code for more information

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BKC 13/30 S	3.4	13.0	4350	300	15mm	18.0mm	9	10 EBHP	6061.B2	6061.30	23 lbs
	BKC 15/30 S	4.0	15.0	4350	300	18mm	14.5mm	I	11.5 EBHP	6061.28	6061.30	23 lbs
	BKC 18/25 S	4.9	18.5	3625	250	18mm	18.0mm	9	11.9 EBHP	6061.28	6061.30	23 lbs
	BKC 21/25 S	5.5	21.0	3625	250	18mm	19.0mm	Y	13.4 EBHP	6061.28	6061.30	23 lbs
1750 RPM	BKD 4.0/44 S	4.0	15.0	4350	140	15mm	18.0mm	9	11.5 EBHP	6061.B2	6061.30	23 lbs
	BKD 5.0/36 S	4.8	18.2	3650	140	18mm	14.5mm	I	11.7 EBHP	6061.28	6061.30	23 lbs

Rail Kit

8702.10

Standard 7/8" Rail Kit for PN, PK, B & BK Series Solid Shaft Pumps

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BKC 15/30 SL)



Scan this QR Code for more information

Direct Drive, Gas Engine Flange Models 1" Hollow Shaft, SAE J609-B Flange and Set Screw

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
3400 RPM	BKL 4.0/44 W	4.0	15.0	4350	300	15mm	10.0mm	5	14.5 HP Gas	6061.B2	6061.30	26 lbs
	BKL 5.0/36 W	5.0	19.0	3625	250	15mm	12.0mm	6	16 HP Gas	6061.B2	6061.30	26 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BKL 5.0/36 WL)



Scan this QR Code for more information

Direct Drive, Hydraulic Flange Models 3/4" Hollow Shaft with 2 Bolt A-Flange Hydraulic Motor Mount

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BKC 15/30 T MI	4.0	15.0	4350	300	15mm	19.0mm	Y	11.5 EBHP	6061.B2	6061.30	25 lbs
	BKC 21/25 T MI	5.5	21.0	3625	250	18mm	19.0mm	Y	13.4 EBHP	6061.28	6061.30	25 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BKC 15/30 TL MI)



Scan this QR Code for more information

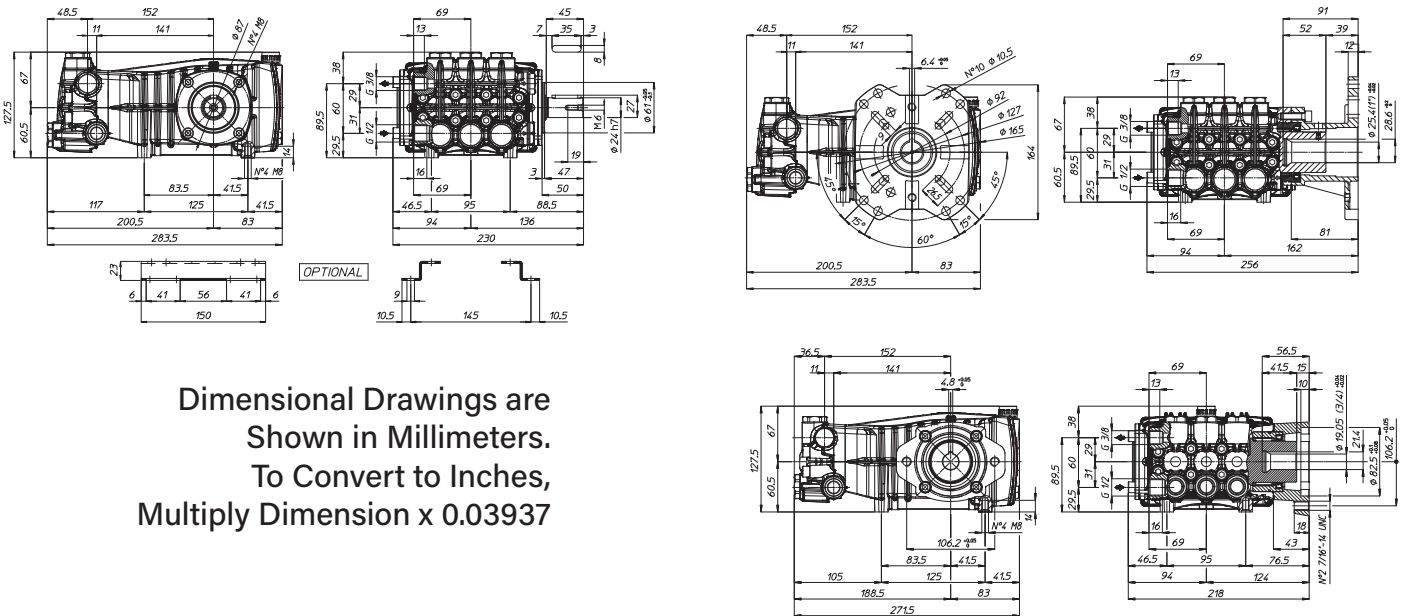
Gear Reduction, Gas Engine Models

1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	BKC 13/30 GR	3.4	13.0	4350	300	15mm	18.0mm	9	14.5 HP Gas	6061.B2	6061.30	30 lbs
	BKC 15/30 GR	4.0	15.0	4350	300	18mm	14.5mm	I	16 HP Gas	6061.28	6061.30	30 lbs
	BKC 18/25 GR	4.9	18.5	3625	250	18mm	18.0mm	9	16 HP Gas	6061.28	6061.30	30 lbs
	BKC 21/25 GR	5.5	21.0	3625	250	18mm	19.0mm	Y	18 HP Gas	6061.28	6061.30	30 lbs

NOTE: All models available with 1" or 1-1/8" Hollow Shafts. Specify size when ordering (ex. **BKC 13/30 GR1** or **BKC 13/30 GR1-1/8**.)

BK Series Dimensional Drawings





- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Brass Manifold with External and Internal Bracing
- High Strength Aluminum Alloy Connecting Rods.
- Large Diameter Brass Valve Caps with Increased Thread Depth
- Reinforcing Ring on Inlet and Discharge Ports
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet: 5.5 - 8.5 GPM
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet: 9.0 GPM & Above
- Max Fluid Temp, 160°F

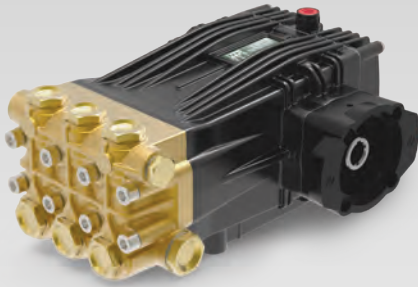


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Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CC 21/20 S	5.5	21.0	2900	200	22mm	13.5mm	N	10.8 EBHP	6061.10	6061.03	36 lbs
	CC 26/20 S	6.9	26.0	2900	200	22mm	17.0mm	X	13.3 EBHP	6061.10	6061.03	36 lbs
	CC 30/20 S	7.9	30.0	2900	200	25mm	15.0mm	V	15.4 EBHP	6061.11	6061.03	36 lbs
	CC 34/20 S	9.0	34.0	2900	200	25mm	17.0mm	X	17.4 EBHP	6061.11	6061.03	36 lbs
	CC 38/17 S	10.0	38.0	2465	170	28mm	15.0mm	V	16.6 EBHP	6061.12	6061.03	36 lbs
	CC 42/17 S	11.6	44.0	2465	170	28mm	17.0mm	X	19.2 EBHP	6061.12	6061.03	36 lbs
	CC 50/15 S	13.2	50.0	2175	150	28mm	19.0mm	Y	19.2 EBHP	6061.12	6061.03	36 lbs
	CC 70/15 S	18.5	70.0	2175	150	30mm	24.0mm	2	26.9 EBHP	6072.02	6072.26	36 lbs
1750 RPM	CD 5.5/30 S	5.5	20.8	2900	200	22mm	11.0mm	P	10.7 EBHP	6061.10	6061.03	36 lbs
	CD 7.0/30 S	7.0	26.5	2900	200	22mm	13.5mm	N	13.6 EBHP	6061.10	6061.03	36 lbs
	CD 7.5/30 S	7.4	28.0	2900	200	22mm	15.0mm	V	14.4 EBHP	6061.10	6061.03	36 lbs
	CD 8.5/30 S	8.5	32.2	2900	200	22mm	17.0mm	X	16.5 EBHP	6061.10	6061.03	36 lbs
	CD 9.5/30 S	9.5	36.0	2900	200	22mm	19.0mm	Y	18.5 EBHP	6061.10	6061.03	36 lbs
	CD 11.0/25 S	11.0	41.5	2465	170	25mm	17.0mm	X	18.1 EBHP	6061.11	6061.03	36 lbs
	CD 12.0/22 S	12.0	45.5	2175	150	25mm	19.0mm	Y	17.5 EBHP	6061.11	6061.03	36 lbs
	CD 18.5/22 S	18.5	70.0	2175	150	30mm	19.0mm	Y	26.9 EBHP	6072.02	6072.26	36 lbs
Rail Kit	8702.08	Standard 7/8" Rail Kit for C Series Solid Shaft Pumps										
	8702.07	Medium 1-3/4" Rail Kit for C Series Solid Shaft Pumps										
	8702.25	Tall 2-1/2" Rail Kit for C Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CC 70/15 SL)



Scan this QR Code for more information

Direct Drive, Hydraulic Flange Models

3/4" Hollow Shaft with 2 Bolt A-Flange Hydraulic Motor Mount

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CC 30/20 T MI	7.9	30.0	2900	200	25mm	15.0mm	V	15.4 EBHP	6061.11	6061.03	37 lbs
	CC 38/17 T MI	10	38.0	2465	170	28mm	15.0mm	V	16.6 EBHP	6061.12	6061.03	37 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CC 30/20 TL MI)



Scan this QR Code for more information

- Standard with 1" Hollow Shaft
 - Available with 1-1/8" Hollow Shaft.
- Add '1-1/8' to Model Number to Specify when Ordering

Gear Reduction, Gas Engine Models

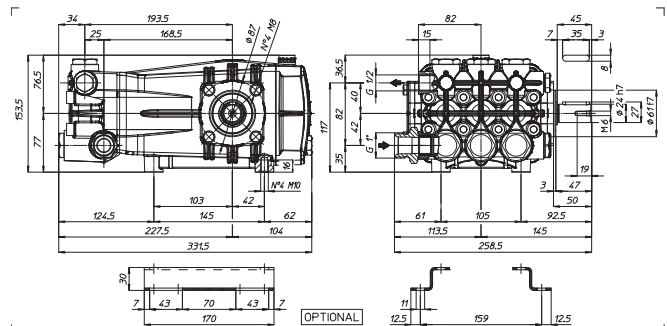
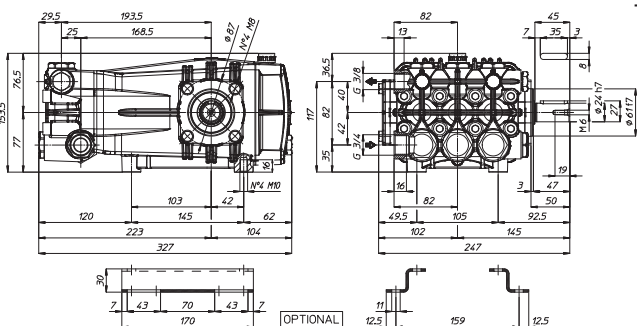
1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

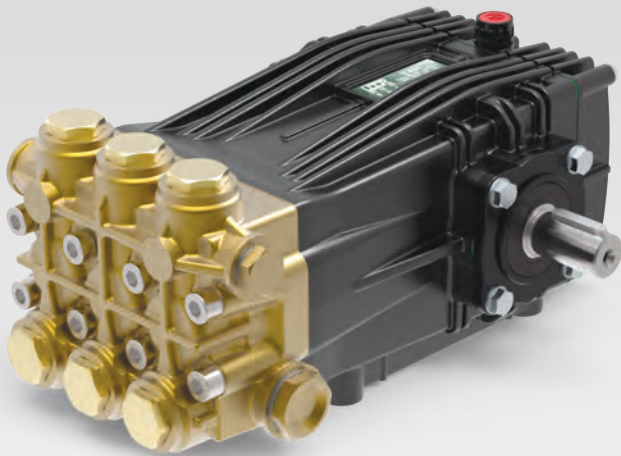
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	CC 21/20 GR	5.5	21.0	2900	200	22mm	13.5mm	N	14.5 HP Gas	6061.10	6061.03	36 lbs
	CC 26/20 GR	6.9	26.0	2900	200	22mm	17.0mm	X	16.0 HP Gas	6061.10	6061.03	36 lbs
	CC 30/20 GR	7.9	30.0	2900	200	25mm	15.0mm	V	20.0 HP Gas	6061.11	6061.03	36 lbs
	CC 34/20 GR	9.0	34.0	2900	200	25mm	17.0mm	X	23.0 HP Gas	6061.11	6061.03	36 lbs
	CC 38/17 GR	10.0	38.0	2465	170	28mm	15.0mm	V	20.0 HP Gas	6061.12	6061.03	36 lbs
	CC 42/17 GR	11.6	44.0	2465	170	28mm	17.0mm	X	23.0 HP Gas	6061.12	6061.03	36 lbs
	CC 50/15 GR	13.2	50.0	2175	150	28mm	19.0mm	Y	23.0 HP Gas	6061.12	6061.03	36 lbs
	CC 70/15 GR	18.5	70.0	2175	150	30mm	24.0mm	2	35.0 HP Gas	6072.02	6072.26	36 lbs

NOTE: All models available with 1" or 1-1/8" Hollow Shafts . Specify size when ordering (ex. CC 21/20 GR1 or CC 21/20 GR1-1/8.)

C Series Dimensional Drawings

Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937





- Heavy Duty Brass Manifold with External and Internal Bracing
- Heavy Duty Bronze or Aluminum Connecting Rods
- Large Diameter Brass or Stainless Steel Valve Caps with Increased Thread Depth
- Reinforcing Ring on Inlet and Discharge Ports
- Stainless Steel Piston Guides and Check Valves
- Heat Treated Crank Shaft
- Industrial Quality Tapered Roller Bearings
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet - Less Than 10 GPM
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet - 10 GPM and Above
- Max Fluid Temp, 160°F



Scan this QR Code for more information

Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CKC 17/30 S	4.5	170	4350	300	22mm	11.0mm	P	13.1 EBHP	6061.10	6061.03	39 lbs
	CKC 17/36 S	4.5	170	5075	360	20mm	13.5mm	N	15.3 EBHP	6061.D4	6061.63	39 lbs
	CKC 21/30 S	5.5	210	4350	300	22mm	13.5mm	N	16.2 EBHP	6061.10	6061.03	39 lbs
	CKC 21/36 S	5.5	210	5075	360	20mm	17.0mm	X	18.8 EBHP	6061.D4	6061.63	39 lbs
	CKC 26/30 S	6.9	260	4350	300	22mm	17.0mm	X	20.0 EBHP	6061.10	6061.03	39 lbs
	CKC 30/24 S	7.9	300	3480	240	25mm	15.0mm	V	21.5 EBHP	6061.11	6061.03	39 lbs
	CKC 30/30 S	7.9	300	4350	300	22mm	19.0mm	Y	23.1 EBHP	6061.10	6061.03	39 lbs
	CKC 34/25 S	9.0	340	3625	250	25mm	17.0mm	X	21.8 EBHP	6061.11	6061.03	39 lbs
	CKC 38/20 S	10.0	380	2900	200	28mm	15.0mm	V	19.5 EBHP	6061.12	6061.03	39 lbs
	CKC 42/20 S	11.6	440	2900	200	28mm	17.0mm	X	22.6 EBHP	6061.12	6061.03	39 lbs
	CKC 50/20 S	13.2	500	2900	200	28mm	19.0mm	Y	25.6 EBHP	6061.12	6061.03	39 lbs
1750 RPM	CKD 4.5/51 S	4.5	170	5075	360	20mm	11.0mm	P	15.3 EBHP	6061.D4	6061.63	39 lbs
	CKD 5.5/44 S	5.5	208	4350	300	22mm	11.0mm	P	16.0 EBHP	6061.10	6061.03	39 lbs
	CKD 5.5/50 S	5.5	208	5075	360	20mm	13.5mm	N	19.0 EBHP	6061.D4	6061.63	39 lbs
	CKD 6.0/51 S	6.0	227	5075	360	20mm	19.0mm	Y	20.4 EBHP	6061.D4	6061.63	39 lbs
	CKD 7.0/44 S	7.0	260	4350	300	22mm	13.5mm	N	22.0 EBHP	6061.10	6061.03	39 lbs
	CKD 7.0/50 S	7.0	260	5000	340	20mm	17.0mm	X	24.0 EBHP	6061.D4	6061.63	39 lbs
	CKD 7.5/44 S	7.5	284	4350	300	22mm	15.0mm	V	21.8 EBHP	6061.10	6061.03	39 lbs
	CKD 8.5/40 S	8.5	32.2	4060	280	22mm	17.0mm	X	23.5 EBHP	6061.10	6061.03	39 lbs
	CKD 9.5/36 S	9.5	360	3625	250	25mm	19.0mm	Y	23.0 EBHP	6061.11	6061.03	39 lbs
	CKD 11.0/32 S	11.0	41.5	3190	220	25mm	17.0mm	X	23.5 EBHP	6061.11	6061.03	39 lbs
	CKD 12.0/30 S	12.0	45.5	2900	200	25mm	19.0mm	Y	23.4 EBHP	6061.11	6061.03	39 lbs
Rail Kit	8702.08	Standard 7/8" Rail Kit for C Series Solid Shaft Pumps										
	8702.07	Medium 1-3/4" Rail Kit for C Series Solid Shaft Pumps										
	8702.25	Tall 2-1/2" Rail Kit for C Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CC 70/15 SL)



Scan this QR Code for more information

Direct Drive, Hydraulic Flange Models 3/4" Hollow Shaft with 2 Bolt A-Flange Hydraulic Motor Mount

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	CKD 6.0/51 T MI	6.0	22.7	5075	360	20mm	15.0mm	V	20.4 EBHP	6061.D4	6061.63	40 lbs
	CKD 7.5/44 T MI	7.5	28.4	4350	300	22mm	15.0mm	V	21.8 EBHP	6061.10	6061.03	40 lbs
	CKD 9.5/36 T MI	9.5	36.0	3625	250	25mm	15.0mm	V	23.0 EBHP	6061.11	6061.03	40 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CKD 6.0/51 TL MI)



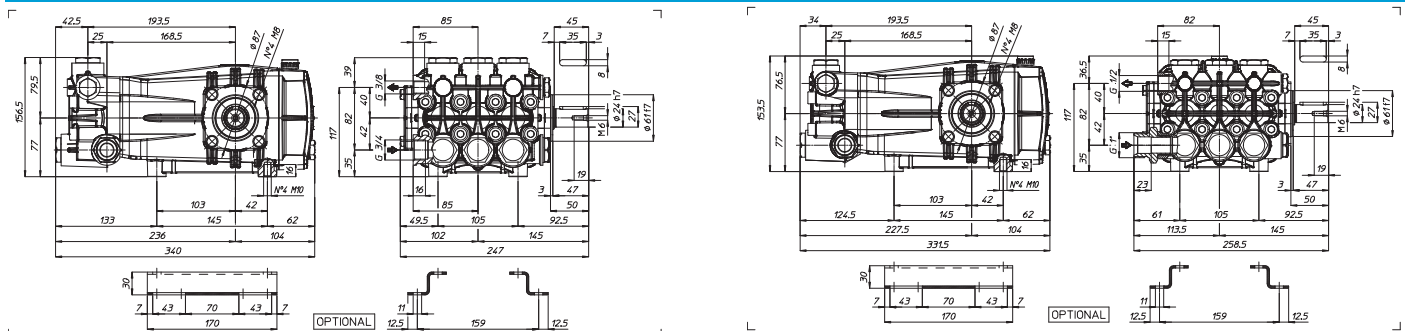
Scan this QR Code for more information

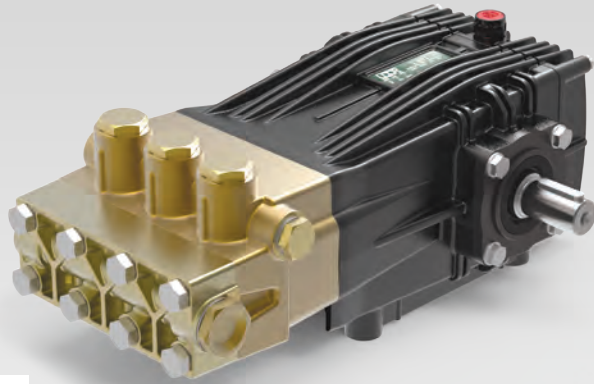
Gear Reduction, Gas Engine Models 1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	CKC 17/30 GR	4.5	17.0	4350	300	22mm	11.0mm	P	18.0 HP Gas	6061.10	6061.03	39 lbs
	CKC 17/36 GR	4.5	17.0	5075	360	20mm	13.5mm	N	20.0 HP Gas	6061.D4	6061.63	39 lbs
	CKC 21/30 GR	5.5	21.0	4350	300	22mm	13.5mm	N	23.0 HP Gas	6061.10	6061.03	39 lbs
	CKC 21/36 GR	5.5	21.0	5075	360	20mm	17.0mm	X	24.0 HP Gas	6061.D4	6061.63	39 lbs
	CKC 26/30 GR	6.9	26.0	4350	300	22mm	17.0mm	X	26.0 HP Gas	6061.10	6061.03	39 lbs
	CKC 30/24 GR	7.9	30.0	3480	240	25mm	15.0mm	V	26.0 HP Gas	6061.11	6061.03	39 lbs
	CKC 30/30 GR	7.9	30.0	4350	300	22mm	19.0mm	Y	26.0 HP Gas	6061.10	6061.03	39 lbs
	CKC 34/25 GR	9.0	34.0	3625	250	25mm	17.0mm	X	26.0 HP Gas	6061.11	6061.03	39 lbs
	CKC 38/20 GR	10.0	38.0	2900	200	28mm	15.0mm	V	25.0 HP Gas	6061.12	6061.03	39 lbs
	CKC 42/20 GR	11.6	44.0	2900	200	28mm	17.0mm	X	26.0 HP Gas	6061.12	6061.03	39 lbs
	CKC 50/20 GR	13.2	50.0	2900	200	28mm	19.0mm	Y	26.0 HP Gas	6061.12	6061.03	39 lbs

NOTE: All models available with 1" or 1-1/8" Hollow Shafts. Specify size when ordering (ex. CKC 21/30 GR1 or CKC 21/30 GR1-1/8.)

CK Series Dimensional Drawings





- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Brass Manifold
- Heavy Duty Bronze Connecting Rods
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

Solid Shaft Models 24mm Keyed Solid Shaft



Scan this QR Code for more information

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CXC 15/50 S	4.0	15.0	7250	500	15mm	21.0mm	E	19.2 EBHP	6061.88	6061.S5	52 lbs
	CXC 18/50 S	4.8	18.0	7250	500	18mm	17.0mm	Y	23.1 EBHP	6061.G2	6061.S5	52 lbs
	CXC 22/50 S	5.8	22.0	7250	500	18mm	21.0mm	E	28.2 EBHP	6061.G2	6061.S5	52 lbs
Rail Kit	8702.08	Standard 7/8" Rail Kit for C Series Solid Shaft Pumps										
	8702.07	Medium 1-3/4" Rail Kit for C Series Solid Shaft Pumps										
	8702.25	Tall 2-1/2" Rail Kit for C Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CXC 22/50 SL)



Scan this QR Code for more information

Gear Reduction, Gas Engine Models

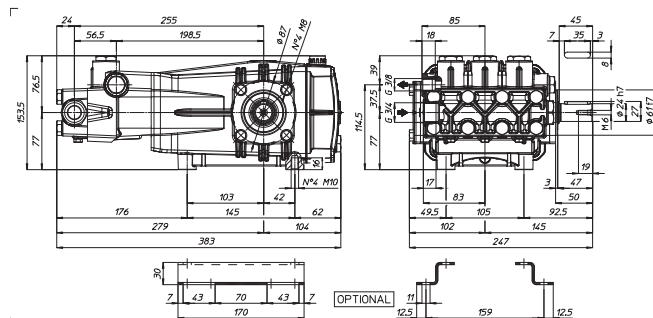
1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

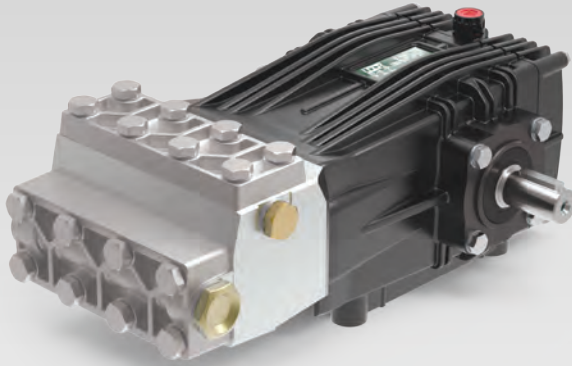
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	CXC 15/50 GR	4.0	15.0	7250	500	15mm	21.0mm	E	26.0 HP Gas	6061.88	6061.S5	59 lbs
	CXC 18/50 GR	4.8	18.0	7250	500	18mm	17.0mm	Y	32.0 HP Gas	6061.G2	6061.S5	59 lbs
	CXC 22/50 GR	5.8	22.0	7250	500	18mm	21.0mm	E	36.0 HP Gas	6061.G2	6061.S5	59 lbs

NOTE: All models available with 1" or 1-1/8" Hollow Shafts. Specify size when ordering (ex. CXC 15/50 GR1 or CXC 15/50 GR1-1/8.)

CX Series Dimensional Drawings

Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937





- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Stainless Steel Block Manifold with Nickel Plated Valve Covers
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F



Scan this QR Code for more information

Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CHC 12/50 S	3.2	12.0	7250	500	15mm	17.0mm	X	15.4 EBHP	6061.88	6061.G1	49 lbs
	CHC 16/50 S	4.2	16.0	7250	500	15mm	22.0mm	1	20.5 EBHP	6061.88	6061.G1	49 lbs
	CHC 20/50 S	5.3	20.0	7250	500	18mm	19.0mm	Y	25.6 EBHP	6061.G2	6061.G1	49 lbs
1750 RPM	CHD 3.0/75 S	3.0	11.5	7250	500	15mm	13.5mm	N	15.0 EBHP	6061.88	6061.G1	49 lbs
	CHD 4.5/75 S	4.2	16.0	7250	500	15mm	19.0mm	YP	20.5 EBHP	6061.88	6061.G1	49 lbs
Rail Kit	8702.08	Standard 7/8" Rail Kit for C Series Solid Shaft Pumps										
	8702.07	Medium 1-3/4" Rail Kit for C Series Solid Shaft Pumps										
	8702.25	Tall 2-1/2" Rail Kit for C Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CHD 4.5/75 SL)



Scan this QR Code for more information

Gear Reduction, Gas Engine Models

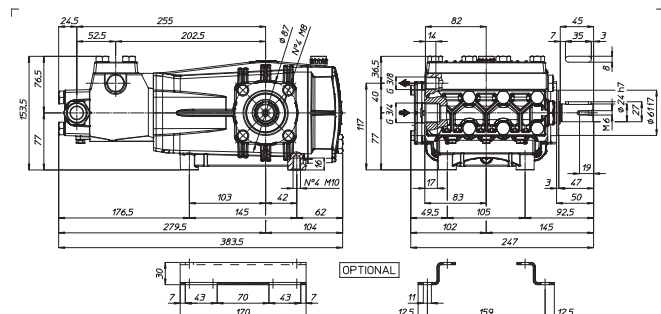
1" or 1-1/8" Hollow Shaft, SAE J609-B Flange. 2.2:1 Gear Reduction

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	CHC 12/50 GR	3.2	12.0	7250	500	15mm	17.0mm	X	20.0 HP Gas	6061.88	6061.G1	59 lbs
	CHC 16/50 GR	4.2	16.0	7250	500	15mm	22.0mm	1	26.0 HP Gas	6061.88	6061.G1	59 lbs
	CHC 20/50 GR	5.3	20.0	7250	500	18mm	19.0mm	Y	34.0 HP Gas	6061.G2	6061.G1	59 lbs

NOTE: All models available with 1" or 1-1/8" Hollow Shafts. Specify size when ordering (ex. CHC 12/50 GR1 or CHC 12/50 GR1-1/8.)

CH Series Dimensional Drawings

Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937





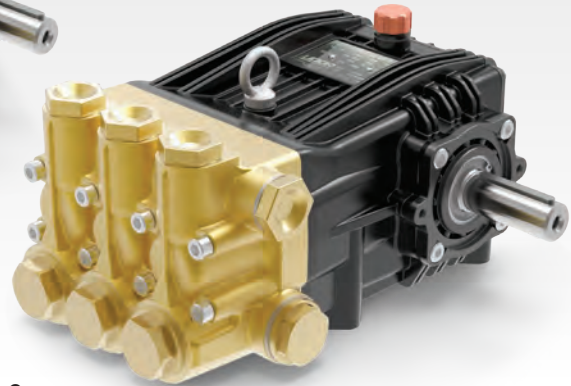
- Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



A
1" BSP-F Inlet
1/2" BSP-F Outlet



B
1-1/4" BSP-F Inlet
3/4" BSP-F Outlet



C
1-1/4" BSP-F Inlet
1" BSP-F Outlet



Scan this QR Code for more information

Solid Shaft Models 30mm Keyed Solid Shaft

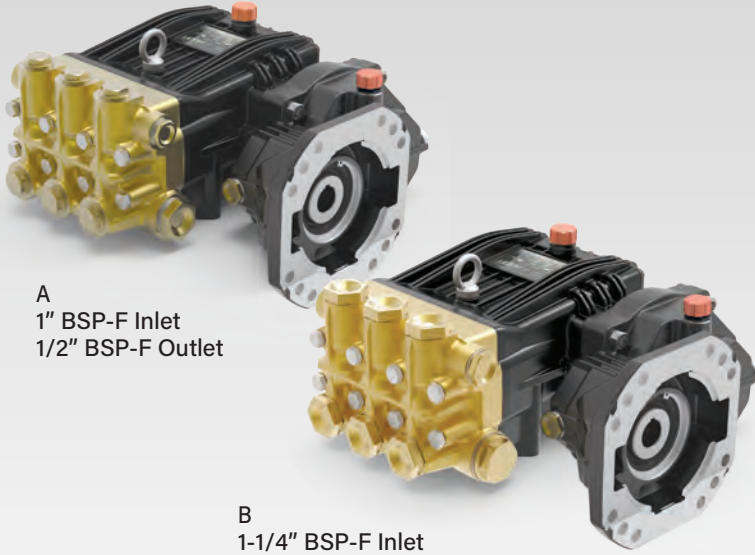
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	A NKC 35/350 R	9.1	34.6	5075	350	22mm	22.0mm	3	31.0 EBHP	6061.10	6061.J1	67 lbs
	A NKC 47/350 R	12.5	47.1	5075	350	22mm	30.0mm	F	42.5 EBHP	6061.10	6061.J1	67 lbs
	A NKC 55/300 R	14.1	53.4	4350	300	22mm	34.0mm	7	41.1 EBHP	6061.10	6061.J1	67 lbs
	A NKC 60/250 R	16.1	60.9	3625	250	25mm	30.0mm	F	39.0 EBHP	6061.11	6061.94	67 lbs
	A NKC 70/250 R	18.2	69.0	3625	250	25mm	34.0mm	7	44.2 EBHP	6061.11	6061.94	67 lbs
	B NKC 75/170 R	19.9	75.1	2465	170	28mm	30.0mm	F	32.8 EBHP	6061.12	6061.M6	67 lbs
	B NKC 85/170 R	23.0	87.0	2465	170	28mm	34.0mm	7	37.9 EBHP	6061.12	6061.M6	67 lbs
	B NKC 100/150 R	26.4	100.0	2175	150	30mm	34.0mm	7	38.4 EBHP	6072.02	6061.M6	67 lbs
	C NKC 130/130 R	33.3	126.2	1885	130	36mm	30.0mm	F	42.1 EBHP	6061.Q1	6061.S7	67 lbs
	C NKC 145/100 R	37.8	143.0	1450	100	36mm	34.0mm	7	36.7 EBHP	6061.Q1	6061.S7	67 lbs
1750 RPM	A NKD 11.0/51 R	11.0	41.5	5075	350	22mm	22.0mm	3	37.2 EBHP	6061.10	6061.J1	67 lbs
	A NKD 15.0/44 R	14.9	56.6	4350	300	22mm	30.0mm	F	43.5 EBHP	6061.10	6061.J1	67 lbs
	B NKD 24.0/25 R	23.8	90.2	2465	170	28mm	30.0mm	F	39.3 EBHP	6061.12	6061.M6	67 lbs
	B NKD 27.0/25 R	26.4	100.0	2465	170	28mm	34.0mm	7	43.6 EBHP	6061.12	6061.M6	67 lbs

Rail Kit

8702.36

Tall (2-1/2") Heavy Duty Rail Kit for NK Series Solid Shaft Pumps

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. NKC 145/100 L)



A
1" BSP-F Inlet
1/2" BSP-F Outlet

B
1-1/4" BSP-F Inlet
3/4" BSP-F Outlet

- Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F
- 1-1/8" or 1-7/16" Hollow Shaft. Please Specify
- For Kohler® Engine Applications, add 'K' to Model#

Model Examples:

NKC 35/350 GR 1-1/8 (Std B&S, Honda)
NKC 47/350 GR 1-7/16 K (Kohler)



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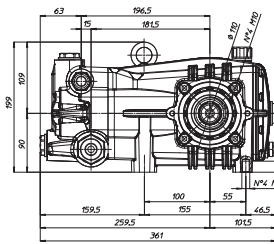
Gear Reduction, Gas Engine Models

1-1/8" or 1-7/16" Hollow Shaft 2.2:1 Gear Reduction

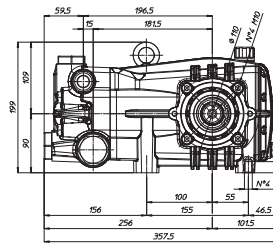
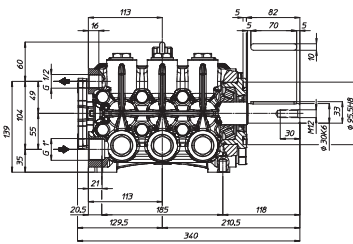
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
Gear Reduction	A NKC 35/350 GR	9.1	34.6	5000	340	22mm	22.0mm	3	40 HP Gas	6061.10	6061.J1	92 lbs
	A NKC 47/350 GR	12.5	47.1	3600	240	22mm	30.0mm	F	40 HP Gas	6061.10	6061.J1	92 lbs
	A NKC 55/300 GR	14.1	53.4	3200	220	22mm	34.0mm	7	40 HP Gas	6061.10	6061.J1	92 lbs
	A NKC 60/250 GR	16.1	60.9	2800	190	25mm	30.0mm	F	40 HP Gas	6061.11	6061.94	92 lbs
	A NKC 70/250 GR	18.2	69.0	2500	170	25mm	34.0mm	7	40 HP Gas	6061.11	6061.94	92 lbs
	B NKC 75/170 GR	19.9	75.1	2300	160	28mm	30.0mm	F	40 HP Gas	6061.12	6061.M6	92 lbs
	B NKC 85/170 GR	23.0	87.0	2000	140	28mm	34.0mm	7	40 HP Gas	6061.12	6061.M6	92 lbs

* NOTE: Pressure ratings are based on 40 HP maximum gearbox capacity.

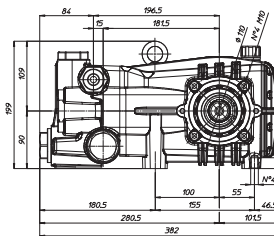
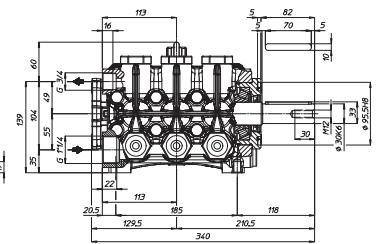
NK Series Dimensional Drawings



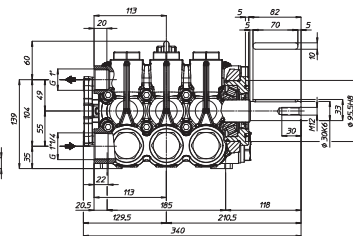
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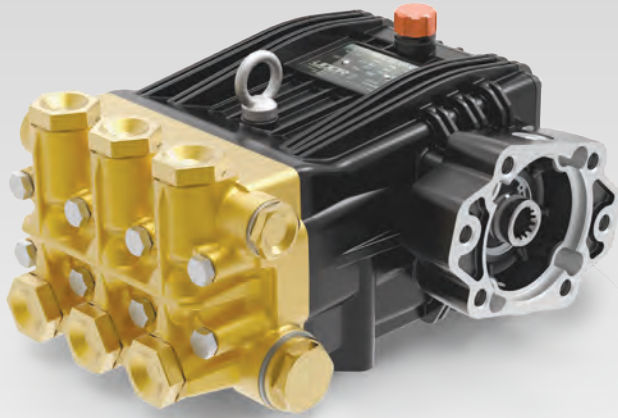
B



C



Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937



- Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



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Hydraulic Drive Models

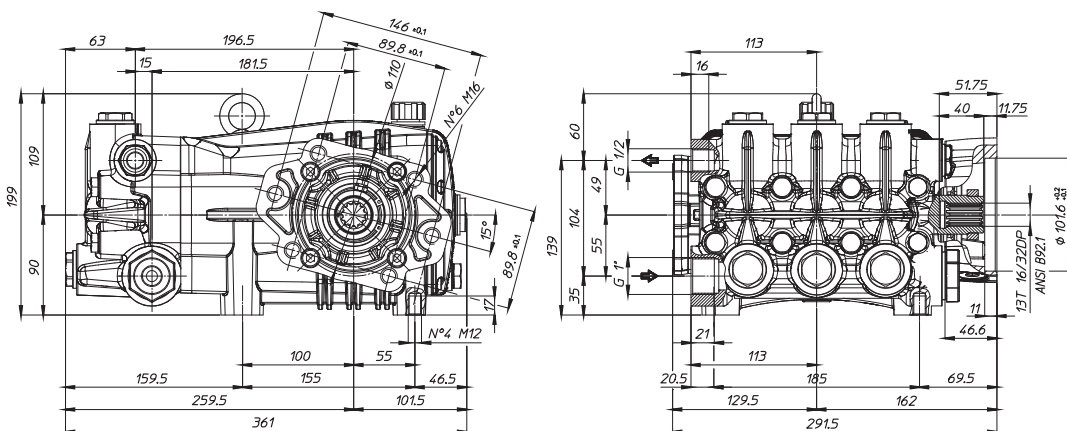
13T, 16/32 DP Splined Hollow Shaft. SAE J744B Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	NKC 47/350 R MI	12.5	47.1	5075	350	22mm	30.0mm	F	42.5 EBHP	6061.10	6061.J1	67 lbs
	NKC 55/300 R MI	14.1	53.4	4350	300	22mm	34.0mm	7	41.1 EBHP	6061.10	6061.J1	67 lbs
	NKC 60/250 R MI	16.1	60.9	3625	250	25mm	30.0mm	F	39.0 EBHP	6061.11	6061.94	67 lbs
	NKC 70/250 R MI	18.2	69.0	3625	250	25mm	34.0mm	7	44.2 EBHP	6061.11	6061.94	67 lbs
	NKC 75/170 R MI	19.9	75.1	2465	170	28mm	30.0mm	F	32.8 EBHP	6061.12	6061.M6	67 lbs
	NKC 85/170 R MI	23.0	87.0	2465	170	28mm	34.0mm	7	37.9 EBHP	6061.12	6061.M6	67 lbs
	NKC 100/150 R MI	26.4	100.0	2175	150	30mm	34.0mm	7	38.4 EBHP	6072.02	6061.M6	67 lbs
	NKC 130/130 R MI	33.3	126.2	1885	130	36mm	30.0mm	F	42.1 EBHP	6061.Q1	6061.S7	67 lbs
1750 RPM	NKC 145/100 R MI	37.8	143.0	1450	100	36mm	34.0mm	7	36.7 EBHP	6061.Q1	6061.S7	67 lbs
	NKD 15.0/44 R MI	14.9	56.6	4350	300	22mm	30.0mm	F	43.5 EBHP	6061.10	6061.J1	67 lbs
	NKD 24.0/25 R MI	23.8	90.2	2465	170	28mm	30.0mm	F	39.3 EBHP	6061.12	6061.M6	67 lbs
	NKD 27.0/25 R MI	26.4	100.0	2465	170	28mm	34.0mm	7	43.6 EBHP	6061.12	6061.M6	67 lbs

Rail Kit 8702.36 Tall (2-1/2") Heavy Duty Rail Kit for NK Series Solid Shaft Pumps

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. NKC 145/100 L MI)

NK-MI Series Dimensional Drawings





NK 500 Series



- Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

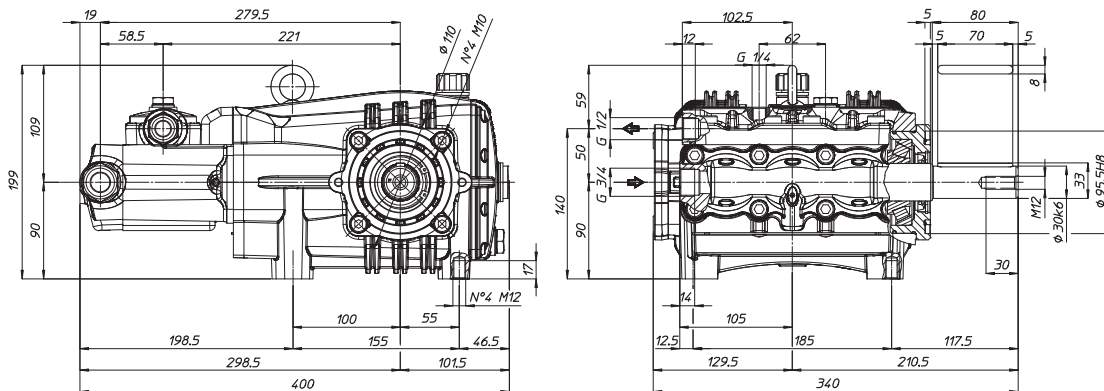


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NK 500 Series Models 30mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	NKC 26/500 R	7.0	26.4	7250	500	25mm	27.0mm	B	33.9 EBHP	6061.G2	6930.02	67 lbs
	NKC 30/500 R	8.3	31.4	7250	500	25mm	30.0mm	F	40.3 EBHP	6061.G2	6930.02	67 lbs
1750 RPM	NKD 7.0/75 R	7.0	26.3	7250	500	25mm	22.0mm	3	33.8 EBHP	6061.G2	6930.02	67 lbs
	NKD 8.0/75 R	8.4	32.0	7250	500	25mm	27.0mm	B	41.0 EBHP	6061.G2	6930.02	67 lbs
Rail Kit	8702.36	Tall (2-1/2") Heavy Duty Rail Kit for NK Series Solid Shaft Pumps										
NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. NKC 26/500 L)												

NK 500 Series Dimensional Drawings





- Stainless Steel Block Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



Scan this QR Code for more information

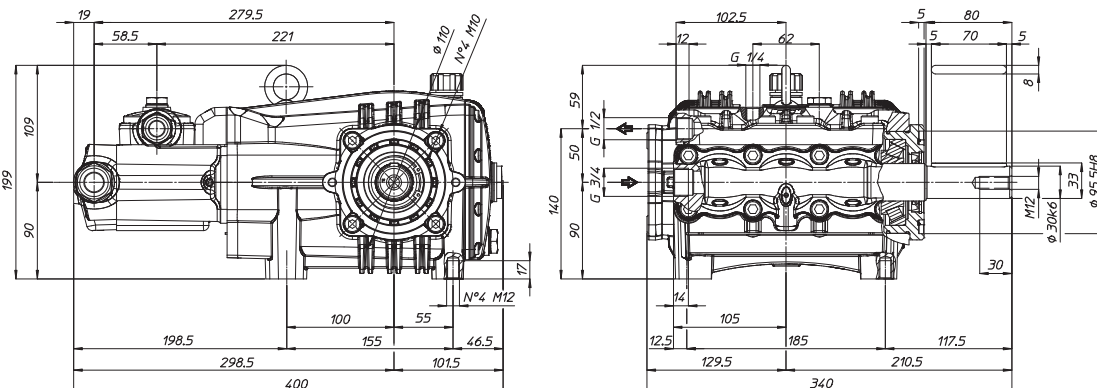
NH Series Models

30mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	NHC 26/500 R	7.0	26.4	7250	500	25mm	27.0mm	B	33.9 EBHP	6061.G2	6930.02	67 lbs
	NHC 30/500 R	8.3	31.4	7250	500	25mm	30.0mm	F	40.3 EBHP	6061.G2	6930.02	67 lbs
1750 RPM	NHD 7.0/75 R	7.0	26.3	7250	500	25mm	22.0mm	3	33.8 EBHP	6061.G2	6930.02	67 lbs
	NHD 8.0/75 R	8.4	32.0	7250	500	25mm	27.0mm	B	41.0 EBHP	6061.G2	6930.02	67 lbs
Rail Kit	8702.36	Tall (2-1/2") Heavy Duty Rail Kit for NK Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. NHC 25/500 L)

NH Series Dimensional Drawings





GAMMA Series



TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



TS GR
GR Model
Replacement



- Anodized Aluminum Crankcase
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- High Strength Aluminum Connecting Rods
- 1-1/4" Hose Barb Inlet. (2) 3/4" BSP-F Outlet
- 57.6 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



Scan this QR Code for more information

GAMMA Series Plunger Pumps 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA 62 TS 1C	17.7	67.0	725	50	40mm	30.0mm	F	8.6 EBHP	6062.A1	6062.65	49 lbs
	GAMMA 62 TS 2C	17.7	67.0	725	50	40mm	30.0mm	F	8.6 EBHP	6062.A1	6062.65	49 lbs
	GAMMA 62 TS GR	17.7	67.0	725	50	40mm	30.0mm	F	8.6 EBHP	6062.A1	6062.65	49 lbs



Scan this QR Code for more information

GAMMA Series Gear Reduction, Gas Engine Models 1" Hollow Shaft. 6.4:1 Gear Reduction

Gear Reduction	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
	GAMMA 62/GR	17.7	67.0	725	50	40mm	30.0mm	F	9-13 HP Gas	6062.A1	6062.65	64 lbs

- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- 1-1/2" Hose Barb Inlet.
- (2) 3/4" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



Scan this QR Code for more information

GAMMA Series Plunger Pumps 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA 85 TS 1C	22.5	85.0	870	60	50mm	24.0mm	N	13.5 EBHP	6062.50	6062.49	83 lbs
	GAMMA 85 TS 2C	22.5	85.0	870	60	50mm	24.0mm	N	13.5 EBHP	6062.50	6062.49	83 lbs
	GAMMA 105 TS 1C	28.5	108.0	870	60	50mm	30.4mm	L	17 EBHP	6062.50	6062.49	83 lbs
	GAMMA 105 TS 2C	28.5	108.0	870	60	50mm	30.4mm	L	17 EBHP	6062.50	6062.49	83 lbs
	GAMMA 125 TS 1C	35.1	133.0	870	60	50mm	38.0mm	V	21 EBHP	6062.50	6062.49	83 lbs
	GAMMA 125 TS 2C	35.1	133.0	870	60	50mm	38.0mm	V	21 EBHP	6062.50	6062.49	83 lbs



- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- 1-1/2" Hose Barb Inlet.
- (2) 3/4" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 2C
1-3/8" PTO x
1-3/8" PTO



Scan this QR Code for more information

GAMMA Series Plunger Pumps 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA 155 TS 2C	39.0	153.0	725	50	55mm	38.0mm	V	28.9 EBHP	6062.G5	6061.Q4	84 lbs

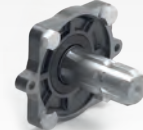


- Anodized Aluminum Crankcase
- High Strength Aluminum Connecting Rods
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- 2" Hose Barb Inlet.
- (4) 3/4" BSP-F Outlet
- 64 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO

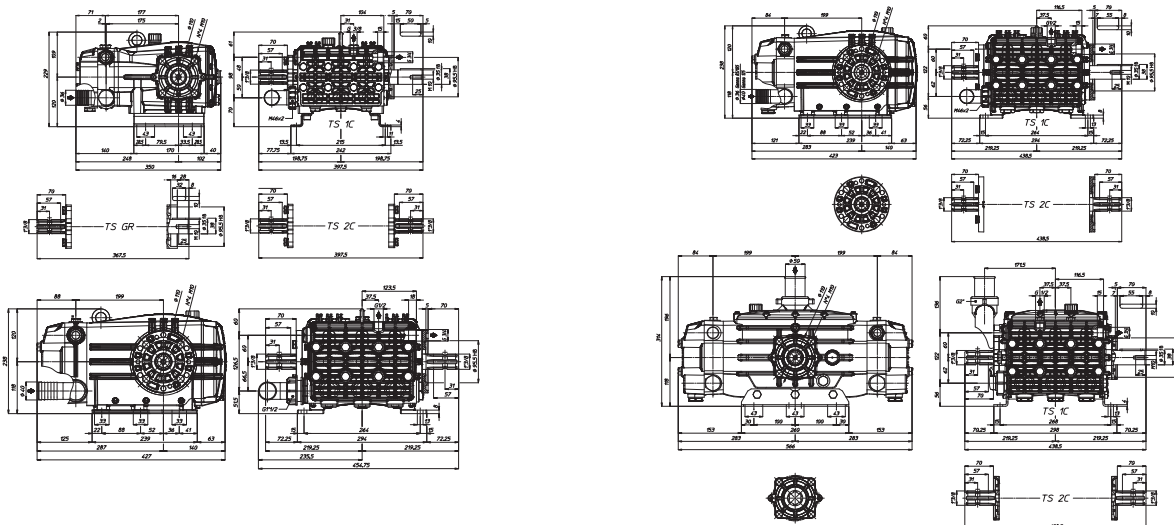


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GAMMA Series Plunger Pumps 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA 162 TS 1C	43.3	164.0	870	60	50mm	24.0mm	N	25.2 EBHP	6062.71	6062.70	115 lbs
	GAMMA 162 TS 2C	43.3	164.0	870	60	50mm	24.0mm	N	25.2 EBHP	6062.71	6062.70	115 lbs
	GAMMA 202 TS 1C	55.0	208.0	870	60	50mm	30.4mm	L	32.0 EBHP	6062.71	6062.70	140 lbs
	GAMMA 202 TS 2C	55.0	208.0	870	60	50mm	30.4mm	L	32.0 EBHP	6062.71	6062.70	115 lbs
	GAMMA 242 TS 1C	63.4	240.0	870	60	50mm	38.0mm	V	36.9 EBHP	6062.71	6062.70	115 lbs
	GAMMA 242 TS 2C	63.4	240.0	870	60	50mm	38.0mm	V	36.9 EBHP	6062.71	6062.70	115 lbs

Dimensional Drawings





- Heavy Duty Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods

- 1-1/4" Hose Barb Inlet
- (2) 3/4" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



Scan this QR Code for more information

GAMMA-IL Series Plunger Pumps

35 mm Solid Shaft x 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA-IL 83 TS 1C	22.2	84.0	1450	100	50mm	24.0mm	N	21.5 EBHP	6062.50	6062.49	118 lbs
	GAMMA-IL 83 TS 2C	22.2	84.0	1450	100	50mm	24.0mm	N	21.5 EBHP	6062.50	6062.49	118 lbs
	GAMMA-IL 103 TS 1C	28.3	107.0	1450	100	50mm	30.4mm	L	27.4 EBHP	6062.50	6062.49	118 lbs
	GAMMA-IL 103 TS 2C	28.3	107.0	1450	100	50mm	30.4mm	L	27.4 EBHP	6062.50	6062.49	118 lbs



- Heavy Duty Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Bronze Connecting Rods

- 2" Hose Barb Inlet
- (4) 3/4" BSP-F Outlet
- 64 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

TS 1C
1-3/8" PTO x
35mm Keyed



TS 2C
1-3/8" PTO x
1-3/8" PTO



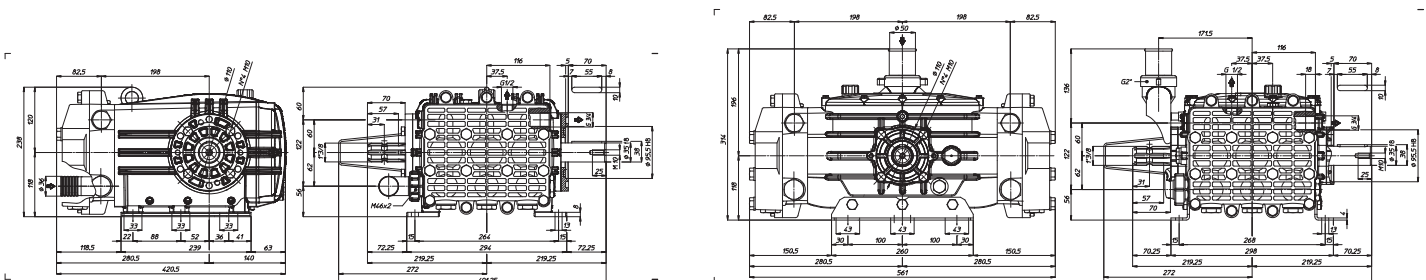
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GAMMA-IL Series Plunger Pumps

35 mm Solid Shaft x 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
600 RPM	GAMMA-IL 160 TS 1C	43.1	163.0	1160	80	50mm	24.0mm	N	33.4 EBHP	6062.71	6062.70	152 lbs
	GAMMA-IL 200 TS 1C	54.4	202.0	1160	80	50mm	30.4mm	L	42.2 EBHP	6062.71	6062.70	152 lbs
	GAMMA-IL 200 TS 2C	54.4	202.0	1160	80	50mm	30.4mm	L	42.2 EBHP	6062.71	6062.70	152 lbs

Dimensional Drawings





- Heavy Duty Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Rods and Check Valves
- Replaceable PTFE Coated Body Guides
- Heavy Duty Bronze Connecting Rods with Guide Pins for Perfect Cap Alignment.
- Heavy Duty Flat Base High Pressure Seals
- Dual Roller Bearings
- 118 oz. Oil Capacity
- 1" BSP-F Inlet. 1/2" BSP-F Outlet
- Max Fluid Temp, 160°F



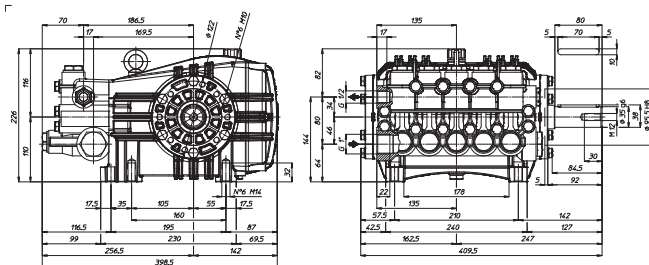
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PENTA Series Plunger Pumps 35 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	PENTA-B 25/400 R	6.6	25.0	5800	400	20mm	17.0mm	X	25.6 EBHP	6061.81	6061.79	97 lbs
	PENTA-B 30/300 R	7.9	30.0	4350	300	22mm	17.0mm	X	23.1 EBHP	6061.76	6061.73	97 lbs
	PENTA-B 40/300 R	10.6	40.0	4350	300	22mm	22.0mm	1	30.7 EBHP	6061.76	6061.73	97 lbs
	PENTA-B 50/200 R	12.9	49.0	2900	200	28mm	17.0mm	X	25.1 EBHP	6061.69	6061.73	97 lbs
1450 RPM	PENTA-C 35/400 R	9.2	35.0	5800	400	20mm	17.0mm	X	35.9 EBHP	6061.81	6061.79	97 lbs
	PENTA-C 43/300 R	11.4	43.0	4350	300	22mm	17.0mm	X	33.1 EBHP	6061.76	6061.73	97 lbs
	PENTA-C 58/300 R	15.3	58.0	4350	300	22mm	22.0mm	1	44.6 EBHP	6061.76	6061.73	97 lbs
	PENTA-C 70/200 R	18.8	71.0	2900	200	28mm	17.0mm	X	36.4 EBHP	6061.69	6061.73	97 lbs
1750 RPM	PENTA-D 18.0/40 R	18.2	70.0	4060	280	25mm	17.0mm	X	50.0 EBHP	6061.75	6061.73	97 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. PENTA-C 43/300 L)

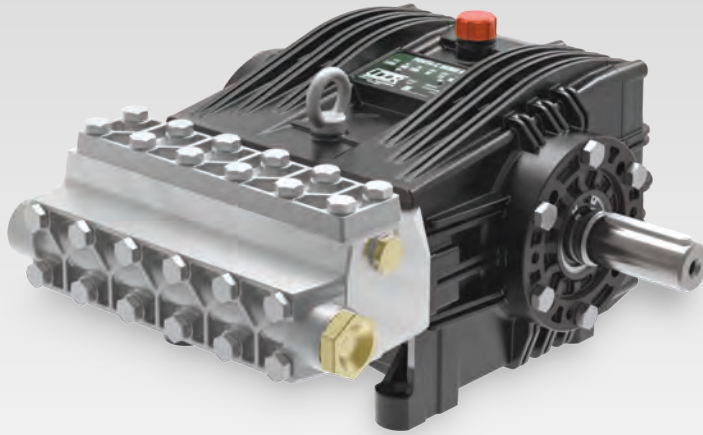
Dimensional Drawings



Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937



PENTA 600 Series



- 316 Stainless Steel Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Rods and Check Valves
- Replaceable PTFE Coated Body Guides
- Heavy Duty Bronze Connecting Rods with Guide Pins for Perfect Cap Alignment.
- Heavy Duty Flat Base High Pressure Seals
- Dual Roller Bearings
- 118 oz. Oil Capacity
- 1" BSP-F Inlet. 1/2" BSP-F Outlet
- Max Fluid Temp, 160°F



Scan this QR Code for more information

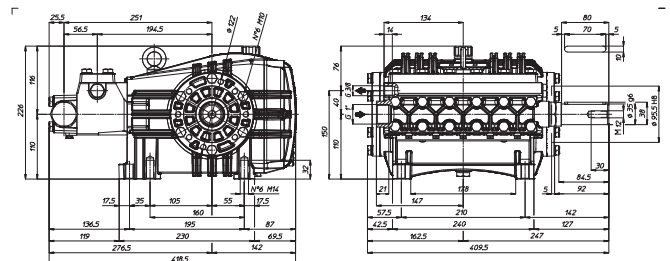
PENTA 600 Series Plunger Pumps 35 mm Solid Keyed Shaft

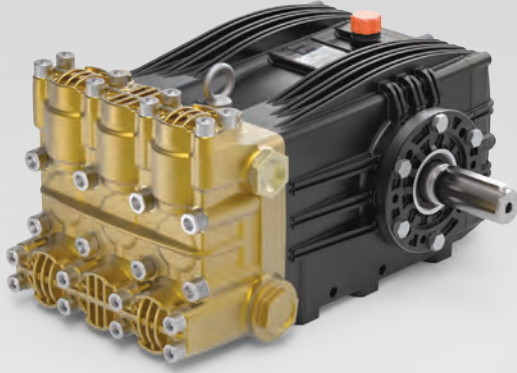
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	PENTA-B 21/600 R	5.5	21.0	8700	600	16mm	22.0mm	1	32.3 EBHP	6072.23	6072.25	98 lbs
1450 RPM	PENTA-C 30/600 R	7.9	30.0	8700	600	16mm	22.0mm	1	46.2 EBHP	6072.23	6072.25	98 lbs
1750 RPM	PENTA-D 7.5/88 R	7.4	28.0	8700	600	16mm	170mm	X	43.1 EBHP	6072.23	6072.25	98 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. PENTA-D 7.5/88 L)

Dimensional Drawings

Dimensional Drawings are Shown in Millimeters. To Convert to Inches, Multiply Dimension x 0.03937





- Heavy Duty Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Replaceable PTFE Coated Body Guides
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F

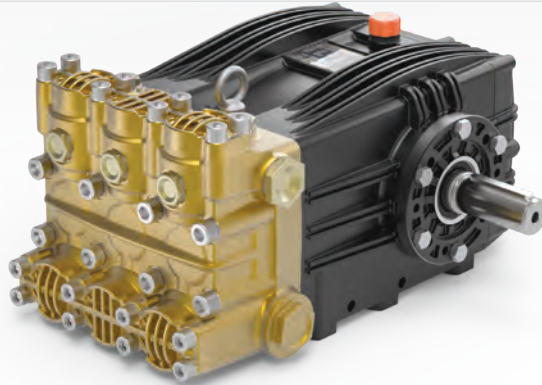


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VX Series Plunger Pumps 35 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VX-B 100/200 R	25.9	98.0	2900	200	32mm	42.0mm	8	50.3 EBHP	6061.E6	6061.E9	128 lbs
	VX-B 130/160 R	33.0	125.0	2320	160	36mm	42.0mm	8	51.3 EBHP	6061.F1	6061.E9	128 lbs
	VX-B 160/130 R	41.0	157.0	1885	130	40mm	42.0mm	8	52.3 EBHP	6061.F3	6061.E9	128 lbs
	VX-B 200/100 R	52.6	199.0	1450	100	45mm	42.0mm	8	51.0 EBHP	6061.F8	6061.E9	128 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. VX-B 100/200 L)



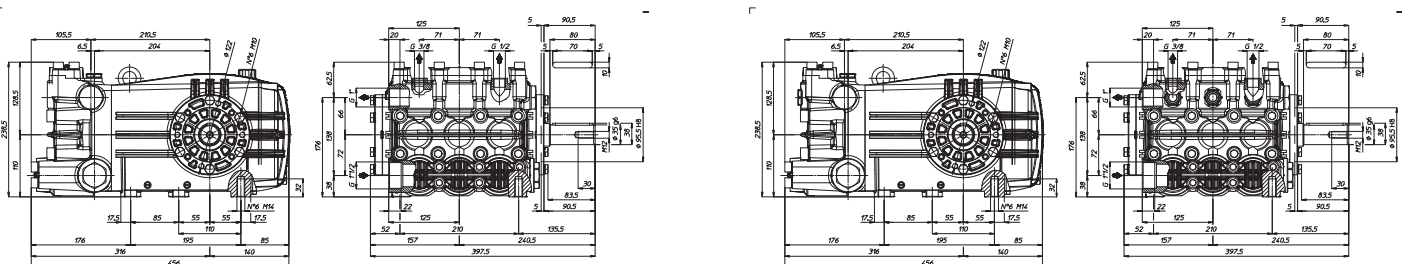
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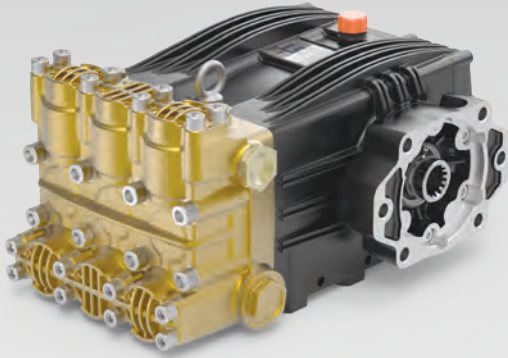
VX Series Plunger Pumps 35 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VX-B 60/350 R	15.9	60.0	5075	350	28mm	35.0mm	5	50.3 EBHP	6061.E6	6061.E9	128 lbs
	VX-B 75/280 R	19.8	75.0	4060	280	28mm	42.0mm	8	51.3 EBHP	6061.F1	6061.E9	128 lbs
1200 RPM	VX-B 95/280 R	24.8	95.0	4060	280	28mm	42.0mm	8	70.0 EBHP	6061.N2	6061.N3	128 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. VX-B 100/200 L)

Dimensional Drawings





- Heavy Duty Brass Manifold
- Solid Ceramic Plungers
- Stainless Steel Plunger Guides and Check Valves
- Replaceable PTFE Coated Body Guides
- Bronze Connecting Rods
- Heavy Duty Flat Base High Pressure Seals
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- 128 oz. Capacity Vented Oil Bath Crank Case
- Max Fluid Temp, 160°F



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VX Series Hydraulic Drive Models

14T, 12/24 DP Splined Hollow Shaft. SAE J744B Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VX-B 100/200 R MI	25.9	98.0	2900	200	32mm	42.0mm	8	50.3 EBHP	6061.E6	6061.E9	128 lbs
	VX-B 130/160 R MI	33.0	125.0	2320	160	36mm	42.0mm	8	51.3 EBHP	6061.F1	6061.E9	128 lbs
	VX-B 160/130 R MI	41.0	157.0	1885	130	40mm	42.0mm	8	52.3 EBHP	6061.F3	6061.E9	128 lbs
	VX-B 200/100 R MI	52.6	199.0	1450	100	45mm	42.0mm	8	51.0 EBHP	6061.F8	6061.E9	128 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. VX-B 100/200 L MI)



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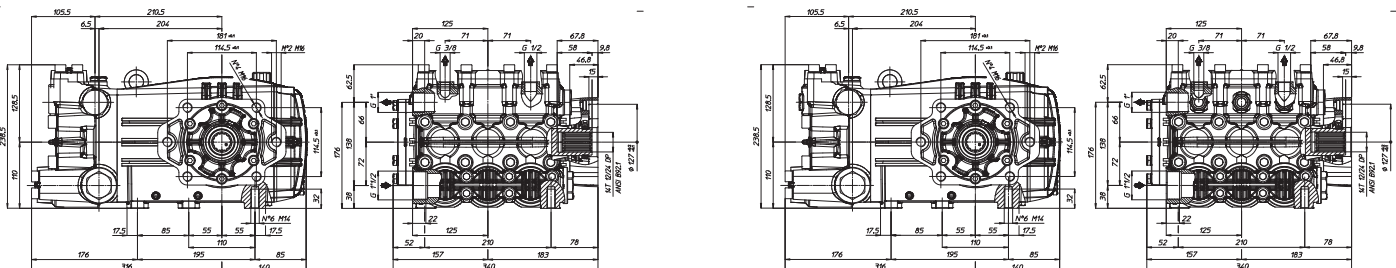
VX Series Hydraulic Drive Models

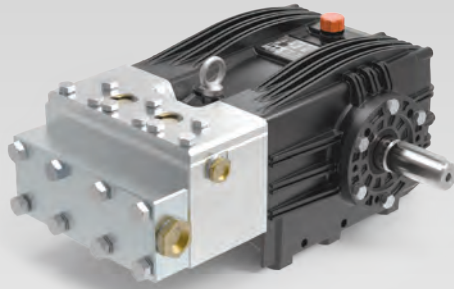
14T, 12/24 DP Splined Hollow Shaft. SAE J744B Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VX-B 75/280 R MI	19.8	75.0	4060	280	28mm	42.0mm	8	51.3 EBHP	6061.F1	6061.E9	128 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. VX-B 100/200 L)

Dimensional Drawings





- Stainless Steel Manifold
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 1" BSP-F Inlet. 1/2" BSP-F Outlet
- 128 oz. Oil Capacity
- Max Fluid Temp, 160°F



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VH Series Plunger Pumps 35 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VH-B 40/600 R	10.6	40	8700	600	20mm	45.0mm	2	61.5 EBHP	6061.P4	6061.P7	145 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. VH-B 40/600 L)



- Stainless Steel Manifold
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 1/2" BSP-F Inlet. 1/2" BSP-F Outlet
- 128 oz. Oil Capacity
- Max Fluid Temp, 160°F



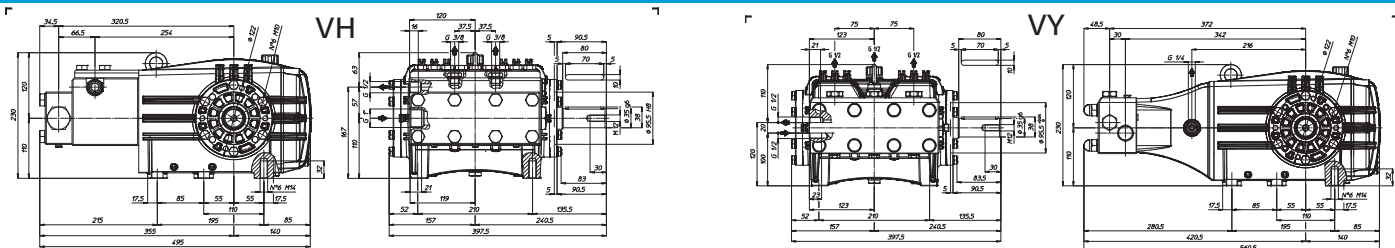
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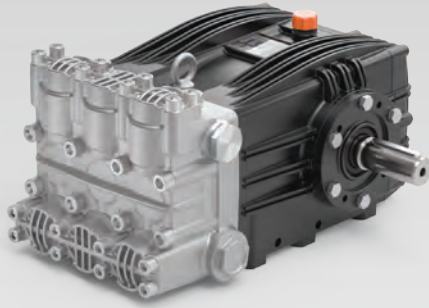
VY Series Plunger Pumps 35 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VY-B 14/1250 R	3.7	14.1	18130	1250	14mm	35.0mm	5	45.2 EBHP	6061.F1	6061.F3	136 lbs
	VY-B 15/1000 R	3.9	14.8	14500	1000	14mm	35.0mm	5	37.4 EBHP	6061.F1	6061.F3	136 lbs
	VY-B 20/800 R	5.3	20.0	11600	800	16mm	35.0mm	5	41.0 EBHP	6061.F1	6061.F3	136 lbs
	VY-B 20/1000 R	5.2	19.5	14500	1000	14mm	45.0mm	2	50.0 EBHP	6061.F1	6061.F3	136 lbs
	VY-B 25/800 R	6.5	24.5	11600	800	16mm	42.0mm	8	50.3 EBHP	6061.F6	6061.F3	136 lbs
1200 RPM	VY-F 15/1000 R	4.0	15.0	14500	1000	14mm	35.0mm	5	38.4 EBHP	6061.F1	6061.F3	136 lbs
	VY-F 15/1250 R	3.8	14.5	18130	1250	14mm	35.0mm	5	46.4 EBHP	6061.F1	6061.F3	136 lbs
	VY-F 20/800 R	5.3	20.0	11600	800	16mm	30.4mm	L	41.0 EBHP	6061.F6	6061.F3	136 lbs
	VY-F 20/1000 R	5.2	29.5	14500	1000	16mm	45.0mm	2	50.0 EBHP	6061.F6	6061.F3	136 lbs
1450 RPM	VY-C-15/1000 R	4.0	15.0	14500	1000	12mm	35.0mm	5	38.5 EBHP	6061.F6	6061.F3	136 lbs
	VY-C 19/1000 R	4.9	18.6	14500	1000	12mm	42.0mm	8	47.7 EBHP	6061.F6	6061.F3	136 lbs
1750 RPM	VY-D 4.0/15 R	4.0	15	14500	1000	12mm	30.4mm	L	38.4 EBHP	6061.F6	6061.F3	136 lbs
	VY-D 5.0/15 R	4.8	18.1	14500	1000	12mm	35.0mm	5	46.4 EBHP	6061.F6	6061.F3	136 lbs
	VY-D 6.5/12 R	6.5	24.6	11600	800	12mm	45.0mm	2	50.4 EBHP	6061.F6	6061.F3	136 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. VY-C 15/1000 L)

Dimensional Drawings





- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- 128 oz. Oil Capacity
- Max Fluid Temp, 160°F

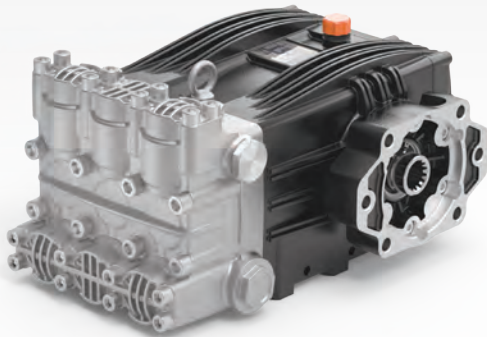


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VXX Series Plunger Pumps 40 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VXX-B 75/350 R	19.8	75.0	5075	350	28mm	42.0mm	8	63.3 EBHP	6061.N2	6061.N3	141 lbs
	VXX-B 130/220 R	34.4	130.0	3190	220	36mm	42.0mm	8	73.3 EBHP	6061.F1	6061.E9	137 lbs
	VXX-B 160/180 R	42.3	160.0	2610	180	40mm	42.0mm	8	73.8 EBHP	6061.F3	6061.E9	137 lbs
	VXX-B 200/150 R	52.8	200.0	2175	150	45mm	42.0mm	8	76.9 EBHP	6061.F8	6061.E9	137 lbs
1200 RPM	VXX-F 240/140 R	63.2	239.0	2030	140	45mm	42.0mm	8	85.8 EBHP	6061.F8	6061.E9	137 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. VXX-B 200/150 L)



- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- 128 oz. Oil Capacity
- Max Fluid Temp, 160°F



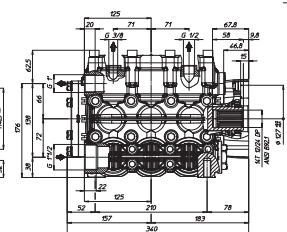
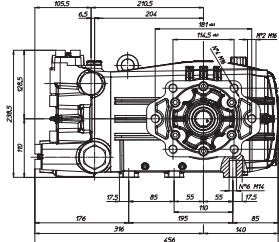
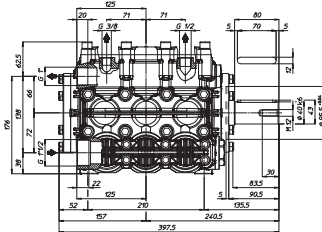
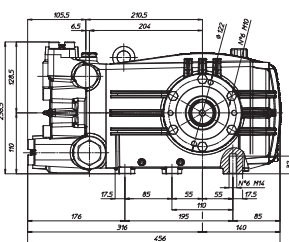
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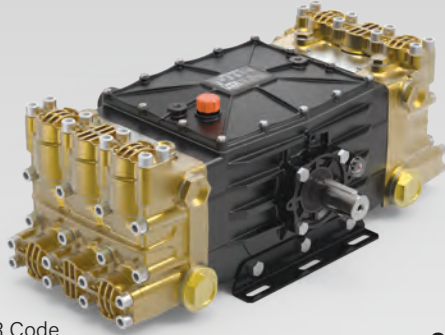
VXX Series Hydraulic Drive Models 14T, 12/24 DP Splined Hollow Shaft. SAE J744B Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VXX-B 75/350 R MI	19.8	75.0	5075	350	28mm	42.0mm	8	63.3 EBHP	6061.N2	6061.N3	141 lbs
	VXX-B 130/220 R MI	34.4	130.0	3190	220	36mm	42.0mm	8	73.3 EBHP	6061.F1	6061.E9	137 lbs
	VXX-B 160/180 R MI	42.3	160.0	2610	180	40mm	42.0mm	8	73.8 EBHP	6061.F3	6061.E9	137 lbs
	VXX-B 200/150 R MI	52.8	200.0	2175	150	45mm	42.0mm	8	76.9 EBHP	6061.F8	6061.E9	137 lbs
1200 RPM	VXX-F 240/140 R MI	63.2	239.0	2030	140	45mm	42.0mm	8	85.8 EBHP	6061.F8	6061.E9	137 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for "R" in model number when ordering (ex. VXX-B 200/150 L MI)

Dimensional Drawings





- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- 65 oz. Oil Capacity
- Max Fluid Temp, 160°F



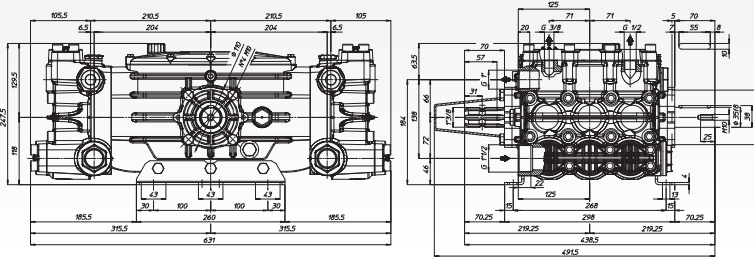
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VX6 Series Plunger Pumps

35 mm Solid Shaft x 1-3/8" 6 Spline PTO Thru Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
800 RPM	VX6-A 260/60 TS 1C	68.7	260.0	870	60	55mm	24.0mm	N	42.0 EBHP	6061.Z5	6061.Z6	198 lbs
	VX6-A 330/50 TS 1C	87.0	329.3	725	50	55mm	30.4mm	L	44.3 EBHP	6061.Z5	6061.Z6	198 lbs
	VX6-A 410/40 TS 1C	108.8	411.7	580	40	55mm	38.0mm	V	44.3 EBHP	6061.Z5	6061.Z6	198 lbs

Dimensional Drawings



- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 2" BSP-F Inlet. 1" BSP-F Outlet
(HX-A 135/300 R, HX-A 160/240 R)
- 2-1/2" BSP-F Inlet. 1-1/4" BSP-F Outlet
(All other models)
- Max Fluid Temp, 160°F



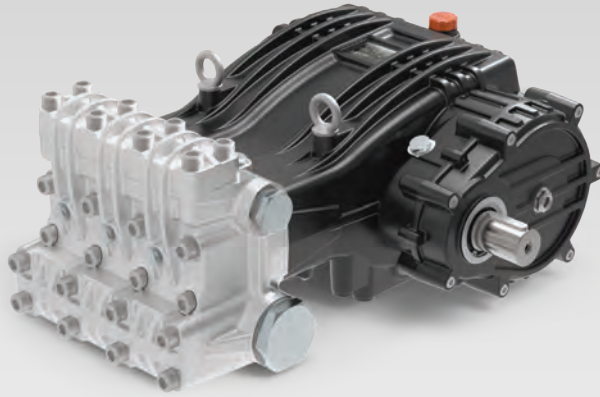
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HX Series Plunger Pumps

80 mm Solid Keyed Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
800 RPM	HX-A 135/300 R	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HX-A 160/240 R	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HX-A 210/200 R	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
	HX-A 270/160 R	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HX-A 330/130 R	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HX-A 400/100 R	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs

NOTE: All pump models available with left-hand drive option. Substitute 'L' for 'R' in model number when ordering (ex. HX-A 135/300 L)



- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 2" BSP-F Inlet. 1" BSP-F Outlet
(HXR- 135/300 R, HXR- 160/240 R)
- 2-1/2" BSP-F Inlet. 1-1/4" BSP-F Outlet
(All other models)
- Max Fluid Temp, 160°F



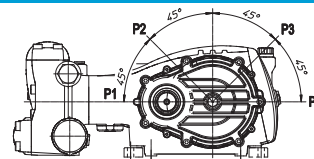
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HXR Series Plunger Pumps 50 mm Male Shaft

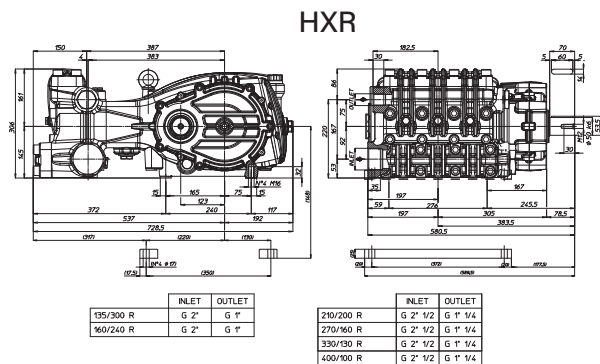
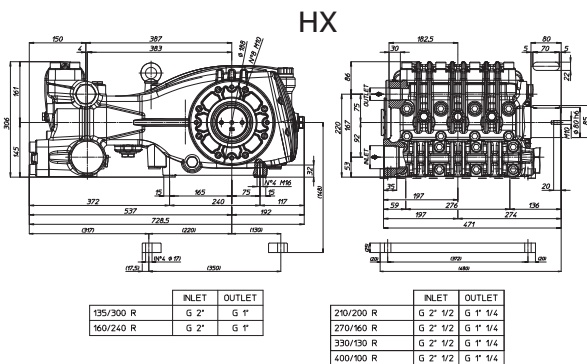
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1500 RPM	HXR1-C 135/300 R	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-C 160/240 R	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-C 210/200 R	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
1.875:1 Gear Ratio	HXR1-C 270/160 R	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-C 330/130 R	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-C 400/100 R	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs
1800 RPM	HXR1-D 135/300 R	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-D 160/240 R	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-D 210/200 R	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
2.238:1 Gear Ratio	HXR1-D 270/160 R	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-D 330/130 R	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-D 400/100 R	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs
2200 RPM	HXR1-M 135/300 R	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-M 160/240 R	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-M 210/200 R	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
2.722:1 Gear Ratio	HXR1-M 270/160 R	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-M 330/130 R	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-M 400/100 R	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs

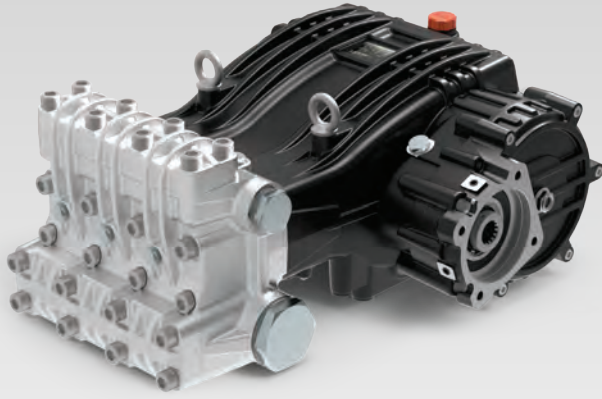
Dimensional Drawings

Dimensional Drawings are Shown in Millimeters.
To Convert to Inches, Multiply Dimension x 0.03937



Depending on specific needs, the Gearbox can be mounted in four different positions P1,P2,P3,P4 as shown in the picture at left.





- Anodized Aluminum Crank Case
- Nickel-Plated Manifold
- Stainless Steel Check Valves
- Heavy Duty Bronze Connecting Rods
- Heavy Duty Roller Bearings
- 2" BSP-F Inlet. 1" BSP-F Outlet
(HXR- 135/300 R MI, HXR- 160/240 R MI)
- 2-1/2" BSP-F Inlet. 1-1/4" BSP-F Outlet
(All other models)
- Max Fluid Temp, 160°F

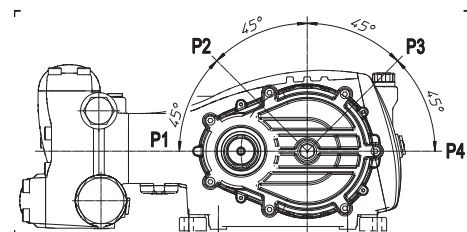
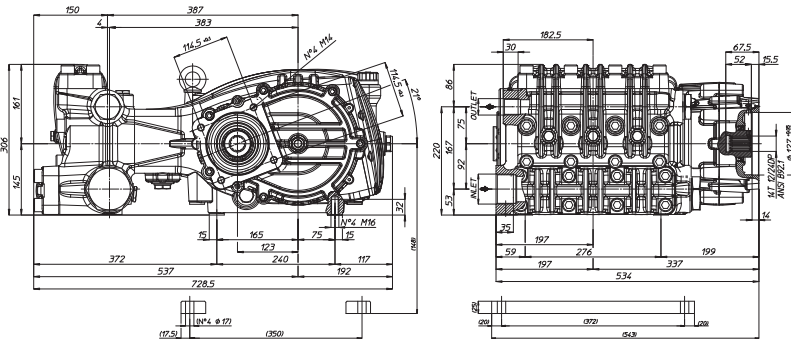


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HXR-MI Series Plunger Pumps 14T 12/24 DP SAE C Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1500 RPM	HXR1-C 135/300 R MI	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-C 160/240 R MI	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-C 210/200 R MI	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
1.875:1 Gear Ratio	HXR1-C 270/160 R MI	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-C 330/130 R MI	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-C 400/100 R MI	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs
1800 RPM	HXR1-D 135/300 R MI	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-D 160/240 R MI	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-D 210/200 R MI	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
2.238:1 Gear Ratio	HXR1-D 270/160 R MI	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-D 330/130 R MI	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-D 400/100 R MI	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs
2200 RPM	HXR1-M 135/300 R MI	32.9	124.5	4350	300	32mm	70.0mm	35	95.8 EBHP	6700.09	6072.03	367.5 lbs
	HXR1-M 160/240 R MI	42.9	162.5	3480	240	36mm	70.0mm	35	100.0 EBHP	6700.10	6072.03	367.5 lbs
	HXR1-M 210/200 R MI	54.4	206	2900	200	40mm	70.0mm	35	105.7 EBHP	6700.07	6072.13	367.5 lbs
2.722:1 Gear Ratio	HXR1-M 270/160 R MI	68.7	260	2320	160	45mm	70.0mm	35	106.8 EBHP	6700.08	6072.13	367.5 lbs
	HXR1-M 330/130 R MI	86.1	326.0	1885	130	50mm	70.0mm	35	108.7 EBHP	6072.14	6072.13	367.5 lbs
	HXR1-M 400/100 R MI	104.4	395.1	1450	100	55mm	70.0mm	35	101.3 EBHP	6072.16	6072.13	367.5 lbs

Dimensional Drawings



Depending on specific needs, the Gearbox can be mounted in four different positions P1,P2,P3,P4 as shown in the picture above.

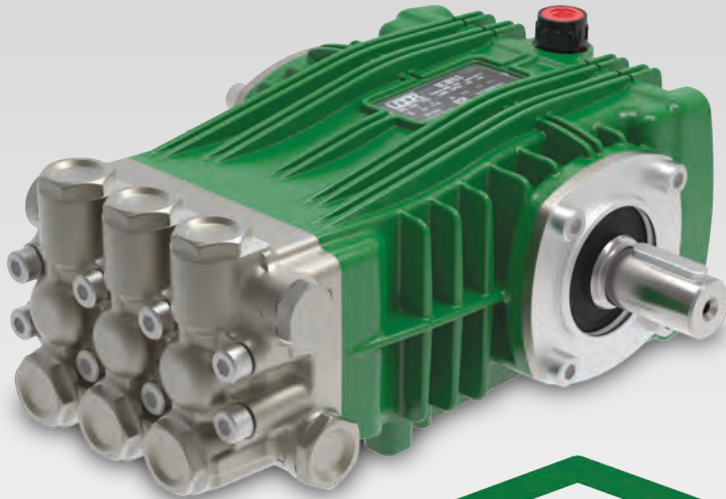
	INLET	OUTLET
135/300 R MI	G 2"	G 1"
160/240 R MI	G 2"	G 1"

	INLET	OUTLET
210/200 R MI	G 2" 1/2	G 1" 1/4
270/160 R MI	G 2" 1/2	G 1" 1/4
330/130 R MI	G 2" 1/2	G 1" 1/4
400/100 R MI	G 2" 1/2	G 1" 1/4

Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937



CAR WASH PUMPS



- Plated Brass Manifold and Valve Caps
- Heat Treated Crankshaft
- Stainless Steel Piston Guides and Check Valves
- NEW **ChemWall** Seals for Car Wash Applications
- Industrial Quality Tapered Roller Bearings
- Solid Ceramic Plungers
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 170°F



- Main **ChemWall** Seal Advantages:
- Special coated stainless steel shell.
 - Rigid design resists collapsing due to chemical and high temperature exposure.
 - Greater resistance to aggressive chemicals including wheel cleaner concentrates.
 - Longer Seal Life - Up to 10x times that of standard seals, reducing maintenance and down time.

BCW Series Car Wash Pumps 24 mm Solid Keyed Shaft



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	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	BCWB 11/20 S	2.9	11.0	2900	200	18mm	11.5mm	R	5.6 EBHP	6061.Z3	6061.43	20 lbs
	BCWB 13/20 S	3.4	13.0	2900	200	18mm	14.5mm	I	6.7 EBHP	6061.Z3	6061.43	20 lbs
	BCWB 15/20 S	4.0	15.0	2900	200	18mm	18.0mm	9	7.7 EBHP	6061.Z3	6061.43	20 lbs
1450 RPM	BCWC 11/20 S	2.9	11.0	2900	200	18mm	10.5mm	O	5.6 EBHP	6061.Z3	6061.43	20 lbs
	BCWC 13/20 S	3.4	13.0	2900	200	18mm	11.5mm	R	6.7 EBHP	6061.Z3	6061.43	20 lbs
	BCWC 15/20 S	4.0	15.0	2900	200	18mm	14.5mm	I	7.7 EBHP	6061.Z3	6061.43	20 lbs
	BCWC 18/20 S	4.9	18.5	2900	200	18mm	18.0mm	9	9.5 EBHP	6061.Z3	6061.43	20 lbs
	BCWC 21/20 S	5.5	21.0	2900	200	18mm	19.0mm	Y	10.8 EBHP	6061.Z3	6061.43	20 lbs
Rail Kit	8702.10	Standard 7/8" Rail Kit for PN, PK, B & BK Series Solid Shaft Pumps										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BCWC 21/20 SL)





- Brass Manifolds
- Industrial Quality Tapered Roller Bearings
- PTFE Packings
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heated Treated Crank Shafts
- Stainless Steel Piston Guides
- Replaceable PTFE Body Guides

TC Series Tool Coolant Pumps 24mm Solid Keyed Shaft



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	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	TCB 5.0/25 S	5.0	19	2500	170	18mm	14.5mm	I	7.5 EBHP	6061.C4	6061.02	20 lbs
	TC 7.0/22 S	7.0	27	2200	150	22mm	17.0mm	X	11.0 EBHP	6061.D1	6061.03	35 lbs
	TC 8.0/22 S	8.0	30	2200	150	25mm	15.0mm	V	12.0 EBHP	6061.D1	6061.03	35 lbs
	TC 38/17 S	10.0	38	2500	170	28mm	15.0mm	V	17.5 EBHP	6061.C5	6061.03	35 lbs
	TC 44/15 S	11.5	44	2200	150	28mm	17.0mm	X	17.5 EBHP	6061.C2	6061.03	35 lbs
Rail Kit	8702.07	Medium (1-3/4") Rail Kit for C & CK Series Solid Shaft Pumps (Including TCC 8.0/22 S)										
	8702.08	Standard (1") Rail Kit for C & CK Series Solid Shaft Pumps (Including TCC 8.0/22 S)										
	8702.10	Standard (7/8") Rail Kit for P, B & BK Series Solid Shaft Pumps (Including TCB 5.0/25 S)										
	8702.20	Tall (2-1/2") Rail Kit for B & BK Series Solid Shaft Pumps (Including TCB 5.0/25 S)										
	8702.25	Tall (2-1/2") Rail Kit for C & CK Series Solid Shaft Pumps (Including TCC 8.0/22 S)										

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. TC 44/15 SL)



- Brass Manifolds
- Industrial Quality Tapered Roller Bearings
- PTFE Packings
- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heated Treated Crank Shafts
- Stainless Steel Piston Guides
- Replaceable PTFE Body Guides

TC Series Tool Coolant Pumps 1-1/8" Hollow Shaft with 182/184 Mounting Flange and Set Screw



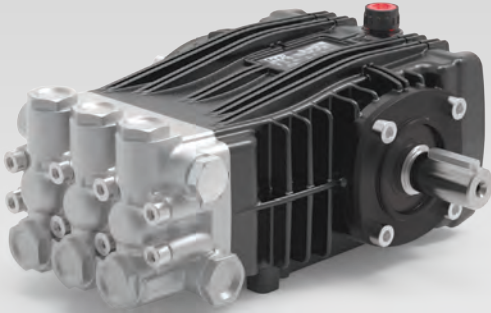
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	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	TCB 5.0/25 U	5.0	19	2500	170	18mm	15.0mm	V	7.5 EBHP	6061.C4	6061.02	23 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. TCB 5.0/25 UL)



HIGH TEMP PUMPS



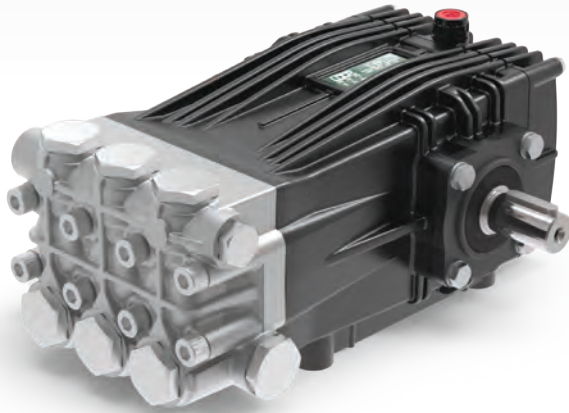
- Nickel Plated Brass Manifold
- Stainless Steel Valve Caps
- Heat Treated Crankshaft
- Stainless Steel Piston Guides and Check Valves
- High Temperature Seals for Hot Water Applications
- Industrial Quality Tapered Roller Bearings
- Solid Ceramic Plungers
- Replaceable PTFE Coated Body Guides
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 185°F



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BWT Series 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BWTC 15/20 S	4.0	15.0	2900	200	18mm	14.5mm	I	7.7 EBHP	6061.28	6930.01	20 lbs
	BWTC 18/20 S	4.9	18.5	2900	200	18mm	18.0mm	9	9.5 EBHP	6061.28	6930.01	20 lbs
	BWTC 21/20 S	5.5	21.0	2900	200	18mm	19.0mm	Y	10.8 EBHP	6061.28	6930.01	20 lbs
Rail Kit	8702.10	Standard 7/8" Rail Kit for PN, PK, B & BK Series Solid Shaft Pumps										
NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BWTC 21/20 SL)												



- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Plated Brass Manifold with External and Internal Bracing
- High Temperature Seals for Hot Water Applications
- Large Diameter Stainless Steel Valve Caps with Increased Thread Depth
- Reinforcing Ring on Inlet and Discharge Ports
- Deeper Back Cover for Increased Oil Capacity
- 35 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet: 5.5 - 8.5 GPM
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet: 9.0 GPM & Above
- Max Fluid Temp, 185°F



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CWT Series 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CWTC 27/20 S	7.1	27.0	2900	200	22mm	17.0mm	X	13.8 EBHP	6061.N9	6061.03	35 lbs
	CWTC 30/20 S	7.9	30.0	2900	200	25mm	15.0mm	V	15.4 EBHP	6061.N9	6061.03	35 lbs
	CWTC 34/20 S	9.0	34.0	2900	200	25mm	17.0mm	X	17.4 EBHP	6061.N9	6061.03	35 lbs
	CWTC 42/17 S	11.6	44.0	2465	170	28mm	17.0mm	X	19.2 EBHP	6061.P2	6061.03	35 lbs
	CWTC 50/15 S	13.2	50.0	2175	150	28mm	19.0mm	Y	19.2 EBHP	6061.P2	6061.03	39 lbs
	CWTC 70/15 S	18.5	70.0	2175	150	30mm	24.0mm	2	36.9 EBHP	6061.P2	6072.26	39 lbs
Rail Kit	8702.08	Standard 7/8" Rail Kit for C Series Solid Shaft Pumps										
	8702.07	Medium 1-3/4" Rail Kit for C Series Solid Shaft Pumps										
	8702.25	Tall 2-1/2" Rail Kit for C Series Solid Shaft Pumps										
NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CWTC 42/17 SL)												



for Aggressive Environment Applications



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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- PTFE Style Packings
- 11.5 oz. Oil Capacity

PS Series Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	PSC 06/15 S	1.5	5.7	2175	150	18mm	5.5mm	D	2.2 EBHP	6061.B1	6061.D7	13.5 lbs
	PSC 08/15 S	2.2	8.2	2175	150	18mm	8.0mm	4	3.3 EBHP	6061.B1	6061.D7	13.5 lbs
	PSC 11/15 S	2.9	11.0	2175	150	18mm	10.5mm	O	4.2 EBHP	6061.B1	6061.D7	13.5 lbs
	PSC 13/15 S	3.4	13.0	2175	150	18mm	12.5mm	S	5.0 EBHP	6061.B1	6061.D7	13.5 lbs

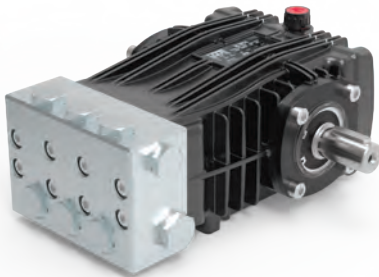


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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- PTFE Style Packings
- 11.5 oz. Oil Capacity

PS Series Direct Drive, Electric Flange Models 5/8" Hollow Shaft with NEMA 56C Mounting Flange

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	PSD 1.6/15 Z	1.6	6.2	1450	100	18mm	5.0mm	B	1.6 EBHP	6061.B1	6061.D7	14.5 lbs
	PSD 2.4/15 Z	2.4	9.0	1450	100	18mm	7.5mm	H	2.4 EBHP	6061.B1	6061.D7	14.5 lbs
	PSD 3.0/15 Z	3.0	11.5	1450	100	18mm	9.4mm	U	3.0 EBHP	6061.B1	6061.D7	14.5 lbs
	PSD 3.6/15 Z	3.6	13.5	1450	100	18mm	10.5mm	O	3.4 EBHP	6061.B1	6061.D7	14.5 lbs
	PSD 4.2/15 Z	4.2	16.0	1450	100	18mm	12.5mm	S	4.0 EBHP	6061.B1	6061.D7	14.5 lbs



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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- PTFE Style Packings
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

BS Series Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	BSC 15/20 S	4.0	15.0	2900	200	18mm	14.5mm	I	7.7 EBHP	6700.01	6930.01	26 lbs
	BSC 18/20 S	4.9	18.5	2900	200	18mm	18.0mm	9	9.5 EBHP	6700.01	6930.01	26 lbs
	BSC 21/20 S	5.5	21.0	2900	200	18mm	19.0mm	Y	10.8 EBHP	6700.01	6930.01	26 lbs

All Models available with Gas Engine Gear Reductions. Contact UDOR USA for pricing and availability.



for Aggressive Environment Applications



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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- PTFE Style Packings
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 1/2" BSP-F Outlet - Below 10 GPM
- 1" BSP-F Inlet. 1/2" BSP-F Outlet - Over 10 GPM
- Max Fluid Temp, 160°F

CS Series Solid Shaft Models 24mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	CSC 27/20 S	7.1	27.0	2900	200	28mm	11.0mm	P	13.8 EBHP	6061.C2	6061.B9	43 lbs
	CSC 34/20 S	9.0	34.0	2900	200	28mm	13.5mm	N	17.4 EBHP	6061.C2	6061.B9	43 lbs
	CSC 42/17 S	11.6	44.0	2465	170	28mm	17.0mm	X	19.5 EBHP	6061.C2	6061.B9	44 lbs
	CSC 50/15 S	13.2	50.0	2175	150	28mm	19.0mm	Y	19.5 EBHP	6061.C2	6061.B9	44 lbs

All Models available with Gas Engine Gear Reductions. Contact UDOR USA for pricing and availability.



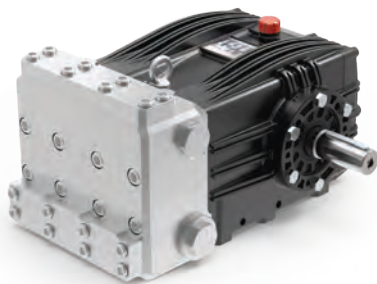
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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- 1-1/4" BSP-F Inlet.
- 3/4" or 1" BSP-F Outlet.
- 57.6 oz. Oil Capacity
- Max Fluid Temp, 160°F

NKS Series Solid Shaft Models 30mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1450 RPM	NKS-C 75/170 R	19.9	75.1	2465	170	28mm	30.0mm	F	32.8 EBHP	6061.I2	6061.M6	79.6 lbs
	NKS-C 85/170 R	22.5	85.2	2465	170	28mm	34.0mm	7	37.1 EBHP	6061.I2	6061.M6	79.6 lbs
	NKS-C 100/150 R	26.4	100.0	2175	150	30m	34.0mm	7	38.4 EBHP	6072.02	6930.03	79.6 lbs
	NKS-C 145/100 R	37.8	143.0	1450	100	36mm	34.0mm	7	36.7 EBHP	6061.Q1	6930.04	79.6 lbs

All Models available with Gas Engine Gear Reductions. Contact UDOR USA for pricing and availability.



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- 316 Stainless Steel Manifolds
- 316 Stainless Steel Valves
- 316 Stainless Steel Plunger Rods & Nuts
- 304 Stainless Steel Exterior Bolts
- Solid Ceramic Plungers
- 128 oz. Capacity Vented Oil Bath Crank Case
- 1-1/2" BSP-F Inlet. 1" BSP-F Outlet
- Max Fluid Temp, 160°F

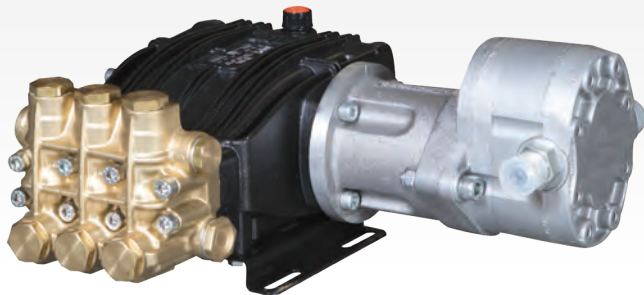
VXS Series Solid Shaft Models 35mm Keyed Solid Shaft

	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1000 RPM	VXS-B 100/200 R	25.9	98.0	2900	200	32mm	42.0mm	8	50.3 EBHP	6061.B6	6061.Z2	150 lbs.
	VXS-B 130/160 R	32.8	124.0	2320	160	36mm	42.0mm	8	50.9 EBHP	6061.F1	6061.Z2	150 lbs.
	VXS-B 160/130 R	41.0	155.0	1885	130	40mm	42.0mm	8	51.7 EBHP	6061.F3	6061.Z2	150 lbs.



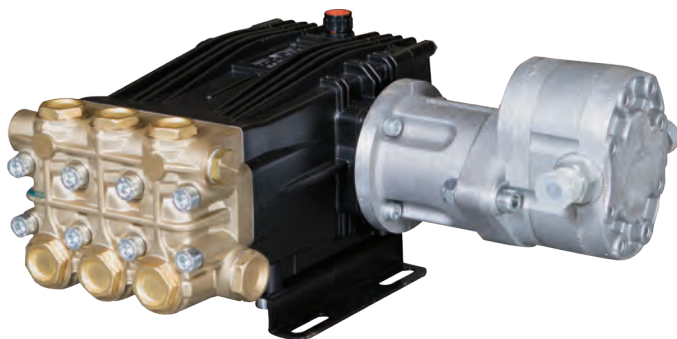
B Series Hydraulic Drive Pumps Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI	bar	Hydraulic Requirements	Weight
1750 RPM	BD 4.0/30 SH	4.0	15	3000	200	12.0 GPM @ 1500 PSI	36 lbs
	BD 5.0/25 SH	5.0	19	2500	170	12.0 GPM @ 1500 PSI	36 lbs
1750 RPM	BD ___/___ SHK	B Series Hydraulic Drive Plunger Pump with hydraulic gear motor, mounting rails, unloader, 1" hose barb inlet, thermal relief valve, safety pop-off valve and 14" x 20" base with rubber bumpers.					65 lbs



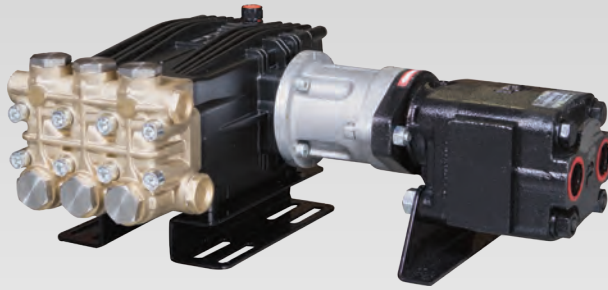
BK Series Hydraulic Drive Pumps Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI	bar	Hydraulic Requirements	Weight
1750 RPM	BKD 4.0/40 SH	4.0	15	4000	270	12.0 GPM @ 2000 PSI	39 lbs
	BKD 5.0/36 SH	5.0	19	3500	240	12.0 GPM @ 2000 PSI	39 lbs
1750 RPM	BKD ___/___ SHK	BK Series Hydraulic Drive Plunger Pump with hydraulic gear motor, mounting rails, unloader, 1" hose barb inlet, thermal relief valve, safety pop-off valve and 14" x 20" base with rubber bumpers.					70 lbs



C Series Hydraulic Drive Pumps Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI	bar	Hydraulic Requirements	Weight
1750 RPM	CD 5.5/30 SH	5.5	21	3000	200	12.0 GPM @ 1700 PSI	48 lbs
	CD 7.0/22 SH	7.0	26	2200	150	12.0 GPM @ 2000 PSI	48 lbs
	CD 8.5/20 SH	8.5	32	2000	130	12.0 GPM @ 2000 PSI	48 lbs
1750 RPM	CD 5.5/30 SHK	C Series Hydraulic Drive Plunger Pump with hydraulic gear motor, mounting rails, unloader, 1" hose barb inlet, thermal relief valve, safety pop-off valve and 14" x 20" base with rubber bumpers.					80 lbs



CK Series Hydraulic Drive Pumps

Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI*	bar*	Hydraulic Requirements	Weight
1450 RPM	CKC 17/30 SH	4.5	17.0	4000	275	20.0 GPM @ 2000 PSI	75 lbs
	CKC 17/36 SH	4.5	17.0	5000	350	20.0 GPM @ 2200 PSI	75 lbs
	CKC 21/30 SH	5.5	21.0	4000	275	20.0 GPM @ 2400 PSI	75 lbs
	CKC 21/36 SH	5.5	21.0	5000	350	20.0 GPM @ 2400 PSI	75 lbs
	CKC 26/30 SH	6.9	26.0	4000	275	20.0 GPM @ 2400 PSI	75 lbs
	CKC 30/24 SH	7.9	30.0	3500	240	20.0 GPM @ 2400 PSI	75 lbs
	CKC 34/25 SH	9.0	34.0	3200	220	20.0 GPM @ 2400 PSI	75 lbs
	CKC 38/20 SH	10.0	38.0	3000	200	20.0 GPM @ 2400 PSI	75 lbs
	CKC 42/20 SH	11.6	44.0	2500	175	20.0 GPM @ 2400 PSI	75 lbs
	CKC 50/20 SH	13.2	50.0	2000	140	20.0 GPM @ 2400 PSI	75 lbs
1450 RPM	CKC ___/___ SHK	CK Series Hydraulic Drive Plunger Pump with hydraulic gear motor, mounting rails, unloader, (2) 1" hose barb inlets, thermal relief valve, safety pop-off valve and 14" x 20" base with rubber bumpers.					100 lbs

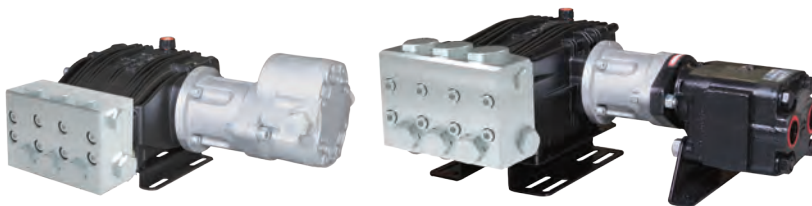
* NOTE: Pressure ratings are based on maximum hydraulic motor output capacity



GAMMA Series Hydraulic Drive Pumps

Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI	bar	Hydraulic Requirements	Weight
600 RPM	GAMMA-62/CC-HYD	17.0	64	850	60	14.0 GPM @ 1400 PSI	75 lbs
	GAMMA-105/CC-HYD	28.0	106	850	60	14.0 GPM @ 1800 PSI	100 lbs



Stainless Steel Aggressive Environment Hydraulic Drive Pumps

Pump, Hydraulic Motor, Mounting Rails

	Model	GPM	l/min	PSI	bar	Hydraulic Requirements	Weight
1450 RPM	BSC 15/20 SH	4.0	15.0	2900	200	10.0 GPM @ 1700 PSI	39 lbs
	BSC 18/20 SH	4.9	18.5	2900	200	10.0 GPM @ 1900 PSI	39 lbs
	BSC 21/20 SH	5.5	21.0	2900	200	10.0 GPM @ 1900 PSI	39 lbs
	CSC 27/20 SH	7.0	27	3000	200	20.0 GPM @ 2000 PSI	80 lbs
	CSC 34/20 SH	9.0	34	3000	200	20.0 GPM @ 2000 PSI	80 lbs
	CSC 42/17 SH	11.5	42	2500	170	20.0 GPM @ 2200 PSI	80 lbs
	CSC 50/15 SH	13.0	50	2200	150	20.0 GPM @ 2200 PSI	80 lbs

GEAR REDUCTIONS

Scan this QR Code for more information



Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5055.E7	PN - PS	6.5 HP	2.3 : 1	7.5 oz.	3/4"

* Use only 80/90W Gear Oil in Udor Gear Reductions



Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
8900.11	B - BK - BWT - BS C - CK - CWT - CH - CX - CS	22.0 HP	2.176 : 1	11.5 oz.	1"
8900.08	B - BK - BWT - BS C - CK - CWT - CH - CX - CS	31.0 HP	2.176 : 1	11.5 oz.	1-1/8"

* Use only 80/90W Gear Oil in Udor Gear Reductions



B&S
Honda

Kohler

Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5121.G8	NK	40.0 HP	2.176 : 1	15.2 oz.	1-1/8" B&S, Honda
5121.G9	NK	40.0 HP	2.176 : 1	15.2 oz.	1-7/16" B&S, Honda
5122.G8	NK	40.0 HP	2.176 : 1	15.2 oz.	1-1/8" Kohler
5122.G9	NK	40.0 HP	2.176 : 1	15.2 oz.	1-7/16" Kohler

* Use only 80/90W Gear Oil in Udor Gear Reductions



Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5100.06	GAMMA-62	16.0 HP	6.4 : 1	17.25 oz.	1"

* Use only 80/90W Gear Oil in Udor Gear Reductions



Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5117.H2	PENTA - VX - VH - VY	60.0 HP	1.48 : 1	20.3 oz.	40.0 mm
5117.H3	PENTA - VX - VH - VY	60.0 HP	1.82 : 1	20.3 oz.	40.0 mm
5117.H4	PENTA - VX - VH - VY	60.0 HP	2.21 : 1	20.3 oz.	40.0 mm
5117.H5	VXX	75.0 HP	1.48 : 1	20.3 oz.	40.0 mm
5117.H6	VXX	75.0 HP	1.82 : 1	20.3 oz.	40.0 mm
5117.H7	VXX	75.0 HP	2.21 : 1	20.3 oz.	40.0 mm

* Use only 80/90W Gear Oil in Udor Gear Reductions



Model	Description	Max. Power	Gear Ratio	Oil Cap.	Engine Shaft
3132.00	RH 115 for HXR Pumps	110.0 HP	1.875 : 1	67.6 oz.	50.0 mm
3131.00	RH 118 for HXR Pumps	110.0 HP	2.238 : 1	67.6 oz.	50.0 mm
3130.00	RH 122 for HXR Pumps	110.0 HP	2.722 : 1	67.6 oz.	50.0 mm
3135.00	RH 115 MI for HXR MI Pumps	110.0 HP	1.875 : 1	67.6 oz.	14T 12/24 DP SAE C
3134.00	RH 118 MI for HXR MI Pumps	110.0 HP	2.238 : 1	67.6 oz.	14T 12/24 DP SAE C
3133.00	RH 122 MI for HXR MI Pumps	110.0 HP	2.722 : 1	67.6 oz.	14T 12/24 DP SAE C

* Use only 80/90W Gear Oil in Udor Gear Reductions

MULTIPLIER GEARBOX



PTO. Step Up Gear Box Multiplier with 1-3/8" 6 Spline male shaft. Designed to mount to C, CS - CW, CK, CX & CH Series 1450 RPM UDOR plunger pumps.
540 RPM input = 1450 RPM output

Model	Pump Series	Max. Power	Gear Ratio	Oil Capacity	Engine Shaft
5102.G2	C - CS - CW - CK - CX - CH	270 HP	1 : 2.5	12 oz.	1-3/8" 6 Spline

* Use only 80/90W Gear Oil

HYDRAULIC MOTORS



A



B



C

Model	Description
A	0632.40 Hydraulic Gear Motor for B & C Series Plunger Pumps
	0632.40/K Hydraulic Motor Repair Kit for 0632.40 Hydraulic Motor
	0632.40/KC Hydraulic Motor Repair Kit with Front Cover for 0632.40 Hydraulic Motor
B	OMP100 Hydraulic Motor for Use with GAMMA-62/CC and GAMMA-105/CC Pumps
C	0632.41 Hydraulic Gear Motor for CK Series Plunger Pumps
	0632.41/K Hydraulic Motor Repair Kit for 0632.41 Hydraulic Motor
	0632.43 High Pressure, Low Volume Hydraulic Motor for NK & PENTA Series Pumps
	0632.44 High Pressure, Low Volume Hydraulic Motor for VX Series Pumps

HYDRAULIC DRIVE COMPONENTS



D



E



F



G

Model	Description
D	0236.19 Hydraulic Flange for B, BK, C and CK Series Pumps
E	0517.12 Hydraulic Flange for P Series Pumps
F	0632.31 Hydraulic Fitting - 1/2" MNPT x JIC #10
F	0632.32 Hydraulic Fitting - 5/8" MNPT x JIC #10
F	0632.33 Hydraulic Fitting - 3/4" MNPT x JIC #10
G	4191.00 Hydraulic Motor Mounting Kit for GAMMA-62/CC & GAMMA-105/CC Pumps

ELECTRIC MOTOR FLANGES



A



B

Model	Description
A 0210.12	NEMA 182/184 TC Electric Motor Flange for Coupler Driving B & BK Series Pumps
B 0210.14	NEMA 213/215 Electric Motor Flange for Coupler Driving B, BK, C & CK Series Pumps

SHAFT COUPLERS AND KEYS



A



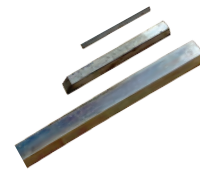
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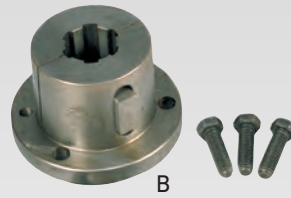
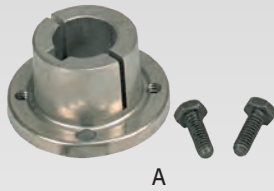
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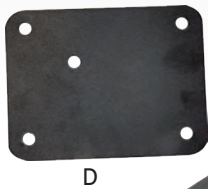
Model	Description
A 0632.10	Coupler Set, 24 mm x 3/4", for B, BK, C & CK Series Hydraulic Drive
A 0632.12	Coupler Set, 24 mm x 1"
B 0632.15	Coupler Set, 1-3/8" Six Spline x 1-1/4" for Driving GAMMA Series Hydraulic Drive
B 0632.21	Coupler Set, 24 mm x 1-3/8", for Electric Motors up to 15 HP
B 0632.25	Coupler Set, 35 mm x 1-1/4" for PENTA & VX Series Hydraulic Drive
C 0632.29	Coupler Set, 24 mm x 1-1/8", for Electric Motors up to 7.5 HP
C 0632.30	Coupler Set, 24 mm x 1-3/8", for Electric Motors up to 10 HP
D CD 1-3/8x1	1-3/8" Six Spline x 1" Chain Drive Coupler Assembly for Driving 600 RPM GAMMA-62/CC or GAMMA-105/CC Pumps with 6:1 Gear Reduced Gas Engines or Hydraulic Motors
E 6914.83	1/4" x 2-1/4" Heat Treated Engine Key for use on 8 - 35 HP Gas Engines
E 6914.84	3/8" x 4-7/8" Heat Treated Engine Key
E 6921.91	3/16" x 1-3/4" Heat Treated Engine Key for use on 2.5 - 6.5 HP Gas Engines

BELT DRIVE BUSHINGS

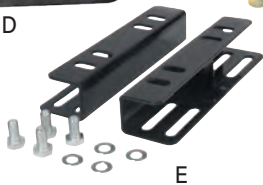


	Model	Description
	10H6	1-3/8", 6 Spline H-Bushing for Pulley Driving Pumps with 6 Spline Male PTO Shaft. 2 Groove Max
A	10H24	24 mm H-Bushing for Pulley Driving Pumps with 24 mm Solid Shaft
	10H25	25 mm H-Bushing for Pulley Driving Pumps with 25 mm Solid Shaft
	10H30	30 mm H-Bushing for Pulley Driving Pumps with 30 mm Solid Shaft
	10H35	35 mm H-Bushing for Pulley Driving Pumps with 35 mm Solid Shaft
	B	10Q1
10Q130		30 mm Q-Bushing for Pulley Driving NK Series Pumps. 4 Groove Max
10Q135		35 mm Q-Bushing for Pulley Driving PENTA, NX & VX Series Pumps. 4 Groove Max
C	10Q2	1-3/8", 6 Spline Q-Bushing for Pulley Driving GAMMA & GAMMA-B Pumps. 5 Groove Max

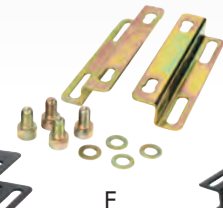
RAIL KITS & MOUNTING HARDWARE



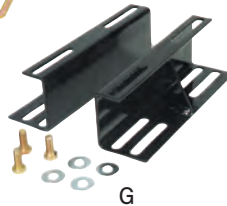
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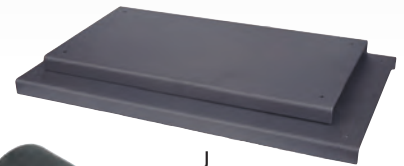
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H



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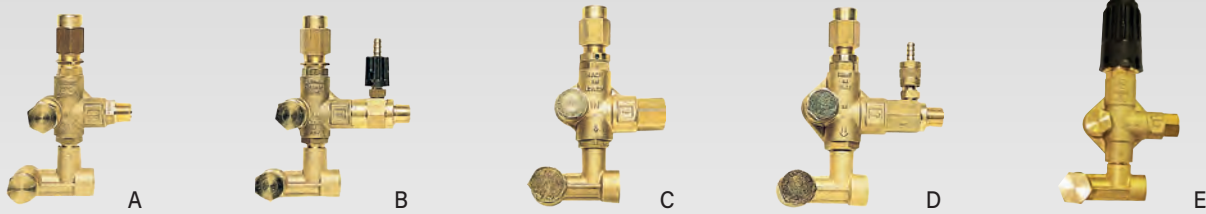


J

	Model	Description
D	5030.S5	Heavy Duty Torque Plate for High Horsepower GR Drive Pumps Attaches to Bottom of Pump Crankcase to Maintain Proper Shaft Alignment
E	8702.07	Medium (1-3/4") Rail Kit for C & CK Series Solid Shaft Pumps
F	8702.08	Standard (1") Rail Kit for C & CK Series Solid Shaft Pumps
F	8702.10	Standard (7/8") Rail Kit for P, B & BK Series Solid Shaft Pumps
G	8702.20	Tall (2-1/2") Rail Kit for B & BK Series Solid Shaft Pumps
G	8702.25	Tall (2-1/2") Rail Kit for C & CK Series Solid Shaft Pumps
H	8702.30	Tall (2-1/2") Heavy Duty Rail Kit for PENTA & VX Series Pumps
H	8702.36	Tall (2-1/2") Heavy Duty Rail Kit for NK Series Pumps
H	8702.40	Tall (2-1/2") Heavy Duty Rail Kit for VX/VY Series Pumps
I	C5429	Rubber Bushing w/ Molded-in Washer 1-3/4" H x 1-7/8" D for Pump, Base Plate or Engine Support
I	C8076	Rubber Bushing with Molded In Washer 3/4" H x 1-1/4" D for Pump, Base Plate or Engine Support
J	9700.00	Base Plate - 14" x 26"
J	9700.10	Base Plate - 17" x 30"
J	9700.20	Base Plate - 14" x 20" for P Series Hydraulic Pump Assembly
J	9700.25	Base Plate - 25" x 36"
K	9700.40	Base Plate - 20" x 30" for PENTA, NK & VX Series High-Pressure, Low-Flow Hydraulic Pump Ass'y

MONOBLOCK UNLOADERS

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	Model	Pump Series	GPM	l/min	PSI	bar	Inlet	Outlet
A	UB17	PN - PS	6.6	25	3190	220	3/8" Female	3/8" Male
B	UBI17	PN - PS	6.6	25	3190	220	3/8" Female	3/8" Male
C	UB22	MS - MWT	7.9	30	3190	220	1/2" Female	3/8" Female
D	UBI22	MS - MWT	7.9	30	3190	220	1/2" Female	3/8" Male
C	UB23	B - BK	7.9	30	3190	220	1/2" Female	3/8" Female
D	UBI23	B - BK	7.9	30	3190	220	1/2" Female	3/8" Male
E	UB24	BK	7.9	30	4060	280	1/2" Female	3/8" Female

BYPASS UNLOADERS

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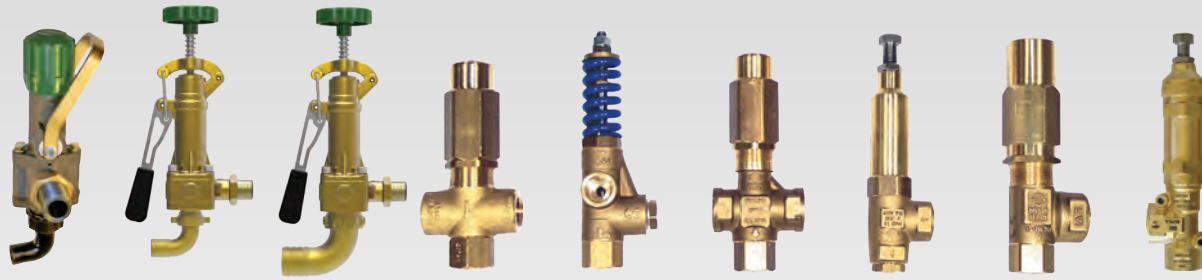


	Model	GPM	l/min	PSI	bar	Inlet	Outlet	Bypass
F	UB130	5.0	19	2300	160	3/8" Male	3/8" Male	3/8" Female
G	UD7100	10.5	40	1500	100	3/8" Female	3/8" Female	3/8" Female
G	UD7300	10.5	40	3625	250	3/8" Female	3/8" Female	3/8" Female
H	UD7400	10.5	40	4350	300	3/8" Female	3/8" Female	3/8" Female
I	UB351	10.5	40	5075	345	3/8" Male	3/8" Female	3/8" Female
J	UB501	21.0	80	7250	500	1/2" Female	1/2" Female	1/2" Female
K	UB600	15.9	60	8700	590	1/2" Female	1/2" Female	3/8" Female
L	UB1000	10.5	40	14,500	1000	3/8" Female	3/8" Female	3/8" Female
M	UB150	21.0	80	2320	160	1/2" Female	1/2" Female	1/2" Female
N	UB280	21.0	80	4350	300	1/2" Female	1/2" Female	1/2" Female
N	UB280SV	21.0	80	4350	300	1/2" Female	1/2" Female	1/2" Female
O	UB1500	53.0	200	2200	150	1" Female	1" Female	1" Female
P	UB2000	53.0	200	4060	275	1" Female	1" Female	1" Female
Q	U 450/20	119.0	450	3000	200	1-1/4" Female	1-1/4" Female	1-1/2" Female
Q	U 450/30	119.0	450	4350	300	1-1/4" Female	1-1/4" Female	1-1/2" Female

RELIEF VALVES



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A

B

C

D

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F

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I



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O



P



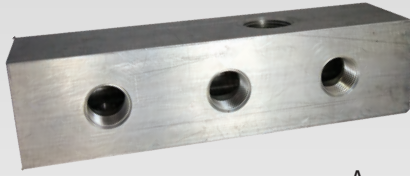
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R

	Model	GPM	l/min	PSI	bar	Inlet	Outlet	Bypass
A	6005.31	31.7	120	725	50	3/4" Male BSP	-	3/4" Barb
A	6005.31/N	31.7	120	725	50	3/4" Male NPT	-	3/4" Barb
B	6005.05	473	179.2	1200	81	3/4" Male BSP	-	1" Barb
B	6005.05/N	473	179.2	1200	81	3/4" Male NPT	-	1" Barb
C	6005.08	66.0	250	1200	81	3/4" Male BSP	-	1-1/2" Barb
C	6005.08/N	66.0	250	1200	81	3/4" Male NPT	-	1-1/2" Barb
D	SV220	6.4	24	3190	217	3/8" Female	-	3/8" Female
E	SV7200	8.0	30	3190	217	3/8" Female	-	3/8" Female
F	SV350	6.6	25	5075	345	3/8" Female	-	3/8" Female
G	SV500	21.0	80	7250	495	1/2" Female	-	3/8" Female
H	UD600F	53.0	200	2610	178	3/4" Female	-	1/2" Female
I	SV400	119.0	450	4350	295	1-1/4" Female	-	1-1/4" Female
J	SV800	10.5	40	11600	790	1/2" Male	-	3/8" Female
J	SV1000	10.5	40	14500	1000	1/2" Male	-	3/8" Female
J	SV1250	10.5	40	18130	1235	1/2" Male	-	3/8" Female
K	UD555FSS	7.0	26	2000	135	3/8" Female	-	3/8" Female
L	UD500F	7.0	26	500	34	3/8" Female	-	3/8" Female
L	UD550F	7.0	26	1000	68	3/8" Female	-	3/8" Female
L	UD555F	7.0	26	2000	135	3/8" Female	-	3/8" Female
M	UD555FT	7.0	26	2000	135	3/8" Female	3/8" Female	3/8" Female
N	UD 1/2-300	20.0	76	300	20	1/2" Male	-	1/2" Female
O	UD 3/4-300	30.0	114	300	20	3/4" Male	-	3/4" Female
P	15-2740	80.0	303	300	20	1-1/4" Male	-	1-1/4" Female
Q	1238.N4	40.0	151	400	27	3/4" Male	-	3/4" Hose Barb
R	UD 3/4-60/P	30.0	114	70	5	3/4" Male	-	3/4" Female
R	UD 3/4-250/P	30.0	114	250	17	3/4" Male	-	3/4" Female

MOUNTING BLOCKS & ADAPTERS



A



B

Model	Description
A 7705.00	Aluminum Mounting Block. (4) 3/4" FNPT, (3) 1/2" FNPT, (1) 1/4" FNPT Port. MAX. 2000 PSI
B 7705.10	Plated Steel Remote Mounting Block, 3/8" FNPT x 3/8" FNPT Ports. MAX. 4000 PSI
B 7705.20	Plated Steel Remote Mounting Block, 1/2" FNPT x 1/2" FNPT Ports. MAX. 4000 PSI

CHEMICAL INJECTORS



D

Model	GPM	l/min	PSI	bar	Inlet	Outlet	Orifice
D 9510.00	2.5 - 4.0	9-15	4000	270	3/8" Male	3/8" Male	2.1 mm
D 9510.01	4.0 - 8.0	15-30	4000	270	3/8" Male	3/8" Male	2.4 mm

POP-OFF & EZ START VALVES



E



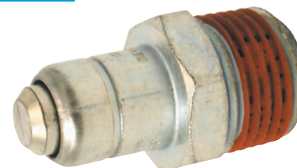
F

Model	Description	GPM	l/min	PSI	bar	Inlet	Outlet
E 9540.00	Safety Pop-Off Valve	8.0	30	4000	270	3/8" Male	-
F 9530.00	EZ Start Valve	8.0	30	4000	270	3/8" Male	1/4" Hose Barb

THERMAL RELIEF VALVES



G



H

Model	Description	Size
G 9520.01	Thermal Relief Valve - 140°F (60°C)	3/8" Male
H 9520.02	Thermal Relief Valve - 140°F (60°C)	1/2" Male



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POLYPROPYLENE INLET FILTERS



A



B

Model	Description
A UD1-16	Inlet Filter. 16 Mesh. 1" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
A UD1-32	Inlet Filter. 32 Mesh. 1" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
B UD1-1/4-16	Inlet Filter. 16 Mesh. 1-1/4" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
B UD1-1/4-32	Inlet Filter. 32 Mesh. 1-1/4" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
B UD1-1/2-16	Inlet Filter. 16 Mesh. 1-1/2" FNPT Ports - Recommended for Use with UDOR Diaphragm Pumps
B UD1-1/2-32	Inlet Filter. 32 Mesh. 1-1/2" FNPT Ports - Recommended for Use with UDOR Plunger Pumps
- 3260.01	Replacement 16 Mesh Screen for 1-1/4" & 1-1/2" Filters
- 3260.02	Replacement 32 Mesh Screen for 1-1/4" & 1-1/2" Filters
- 3260.03	Replacement 16 Mesh Screen for 1" Filters
- 3260.04	Replacement 32 Mesh Screen for 1" Filters



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C

HIGH PRESSURE FILTERS

High pressure, self cleaning strainer features brass construction, (2) 3/4" FNPT inlet & (2) 3/4" FNPT outlet ports. 40 mesh reinforced stainless screen is standard. 9" L including flush valve. 3" Diameter. Has mounting bracket with two 3/8" holes. 40 GPM Max. 1000 PSI Max. (150 l/min Max. 70 bar Max.)

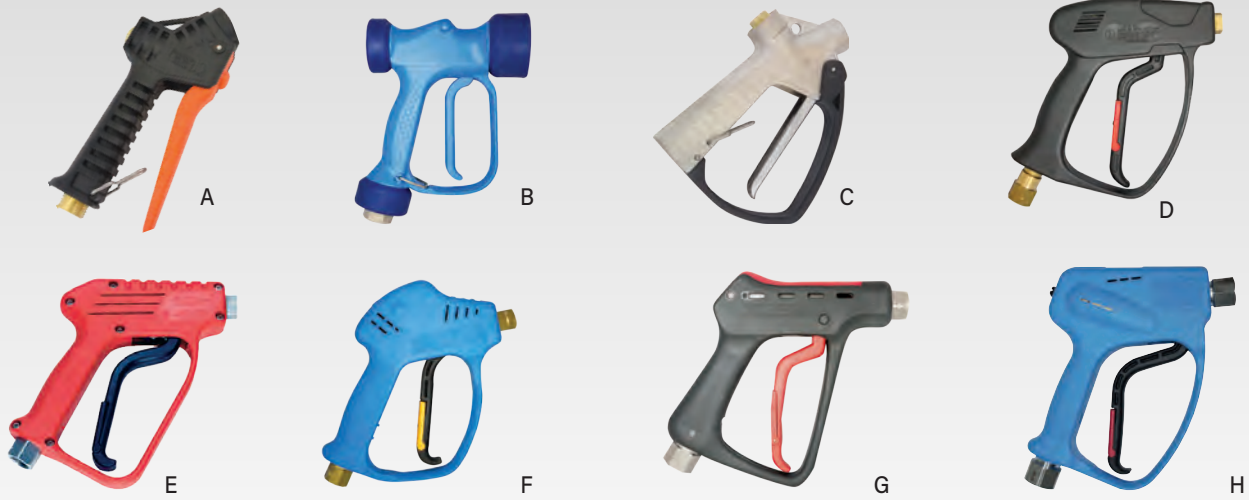
Model	Description
C 144.5046	Discharge Filter. 40 Mesh. 3/4" FNPT Ports
- 144.203.11	Replacement High Pressure Filter Screen
- 219P12	3/4" MNPT Allen Plug
- 209P12/8	3/4" MNPT x 1/2" FNPT Reducer Bushing



PRESSURE GAUGES

Model	Description
GG350	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 350 PSI Max.
GG350BM	Gauge, Stainless Steel Case, Glycerin Filled. Back Mount, 350 PSI Max.
GG1000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 1000 PSI Max.
GG1000BM	Gauge, Stainless Steel Case, Glycerin Filled. Back Mount, 1000 PSI Max.
GG1500	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 1500 PSI Max.
GG3000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 3000 PSI Max.
GG4000	Gauge, Stainless Steel Case, Glycerin Filled. Bottom Mount, 4000 PSI Max.

TRIGGER SPRAY GUNS



	Model	GPM	l/min	PSI	bar	Inlet	Outlet
A	29.1903.7	18.0	68.2	700	48	1/2" FNPT	1/2" FNPT
	8711.03	Repair Kit for 29.1903.7 Spray Gun					
B	1215.29	16.0	60.6	350	24	1/2" FNPT	Adjustable Pattern
C	23.208.84	18.0	68.2	700	48	1/2" FNPT	1/2" FNPT
	8711.03	Repair Kit for 23.208.84 Spray Gun					
D	1215.18	10.0	37.9	4000	272	3/8" FNPT	1/4" FNPT
	1215.18K	Repair Kit for 1215.18 Spray Gun					
E	1215.26	10.5	39.8	5800	395	3/8" FNPT	1/4" FNPT
	1215.26K	Repair Kit for 1215.26 Spray Gun					
F	1215.31	13.0	49.3	5000	340	3/8" FNPT	1/4" FNPT
	1215.31K	Repair Kit for 1215.31 Spray Gun					
G	ST3002	25.0	94.8	8700	600	1/2" FNPT	1/2" FNPT
	ST3002K	Repair Kit for ST3002 Spray Gun					
H	1215.38	53.0	201	3000	204	3/4" FNPT	1/2" FNPT
	1215.38K	Repair Kit for 1215.38 Spray Gun					

FOAM SPRAY GUNS



	Model	GPM	l/min	PSI	bar	Description
A	37.901.20	13.0	49	3000	200	High Pressure Foam Gun, 21" Barrel. 4.5 mm Orifice
B	37.901.30	25.0	95	3000	200	High Pressure High Flow Foam Gun, 21" Barrel. 4.5 mm Orifice

COMPLETE SPRAY GUNS



	Model	GPM	l/min	PSI	bar	Description
A	26.901.162	15.0	57	850	58	High Performance Gun with 8" Barrel. 2.3 mm Orifice
B	26.901.400	15.0	57	850	58	High Perf. Gun, 8" Barrel, 1/2" MBSP Inlet 2.3 mm Orifice
C	7.901.103	25.0	95	850	58	High Performance Gun with 17" Barrel. 4.5 mm Orifice
D	13.901.151	30.0	114	850	58	High Performance Gun with 21" Barrel. 3.5 mm Orifice
E	22.901.161	10.0	38	3000	200	High Pressure Gun with 21" Barrel. 1.8 mm Orifice
F	22.901.163	25.0	95	3000	200	High Pressure Gun with 21" Barrel. 3.0 mm Orifice
G	1215.50	10.5	40	14500	1000	High Pressure Gun with Lance and Arm Brace.
H	1215.51	10.5	40	18130	1235	High Pressure Gun with Lance and Arm Brace.

SPRAY TIP PERFORMANCE

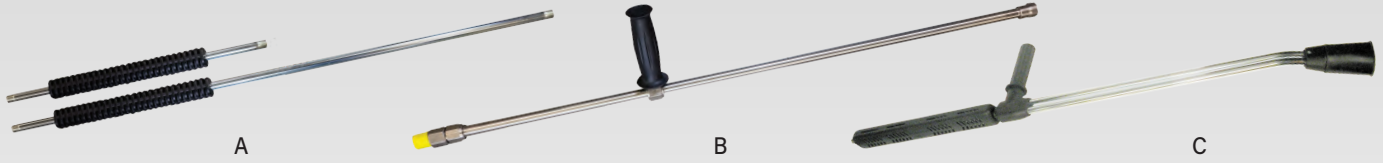
HIGH PERFORMANCE SPRAY GUNS

Model	Orifice (mm)	Material	Gallons per Minute / Maximum Spray Distance in Feet				
			100 PSI	200 PSI	400 PSI	600 PSI	800 PSI
68.1802.51	1.5	Ceramic	.78 / 17	1.1 / 20	1.5 / 23	1.8 / 25	2.1 / 27
68.1802.52	1.8	Ceramic	1.1 / 19	1.6 / 21	2.3 / 24	2.6 / 26	2.9 / 28
68.1802.53	2.0	Ceramic	1.4 / 21	2.0 / 24	2.8 / 26	3.4 / 29	3.8 / 32
68.1802.54	2.3	Ceramic	2.0 / 24	2.5 / 29	4.0 / 34	5.0 / 42	5.5 / 45
68.1802.16	2.5	Ceramic	2.5 / 23	3.0 / 28	4.5 / 32	5.5 / 40	6.5 / 44
68.1802.17	3.0	Ceramic	3.0 / 28	4.5 / 29	6.5 / 34	8.0 / 41	9.0 / 44
13.1802.73	3.5	S/S	4.5 / 31	6.0 / 36	8.5 / 41	11.0 / 50	12.0 / 54
13.1802.58	4.0	S/S	5.0 / 35	7.5 / 38	10.0 / 43	13.5 / 53	14.5 / 59
13.1802.59	4.5	S/S	6.5 / 37	9.0 / 39	12.5 / 44	16.5 / 54	18.0 / 62
13.1802.60	5.0	S/S	7.5 / 33	10.0 / 41	14.0 / 47	18.5 / 59	21.0 / 67
13.1802.61	5.5	S/S	8.0 / 35	11.5 / 42	16.0 / 47	21.0 / 59	23.0 / 70
13.1802.75	6.0	S/S	9.0 / 38	12.5 / 44	18.0 / 54	23.0 / 66	26.0 / 74
13.1802.74	7.0	S/S	9.5 / 21	13.5 / 47	19.0 / 57	24.0 / 70	27.0 / 77

HIGH PRESSURE SPRAY GUNS

Model	Orifice (mm)	Material	Gallons per Minute				
			1000 PSI	1500 PSI	2000 PSI	2500 PSI	3000 PSI
68.1802.50	1.2	Ceramic	2.0	2.4	2.6	2.9	3.5
68.1802.51	1.5	Ceramic	2.5	3.0	3.5	3.9	4.4
68.1802.52	1.8	Ceramic	3.5	4.1	4.7	5.3	5.9
68.1802.53	2.0	Ceramic	4.5	5.1	5.8	6.2	6.8
68.1802.54	2.3	Ceramic	6.0	7.0	8.0	9.0	10.0
68.1802.16	2.5	Ceramic	7.5	9.0	10.5	11.5	13.0
68.1802.17	3.0	Ceramic	10.0	12.0	14.0	16.0	18.0
13.1802.73	3.5	S/S	13.0	16.0	19.0	22.0	36.0

SPRAY WANDS



	Model	GPM	l/min	PSI	bar	Description
A	0802.35	10.0	38	4000	270	14" Spray Wand with Molded Grip
A	0802.45	10.0	38	4000	270	36" Spray Wand with Molded Grip
B	ST3002L	25.0	95	8700	600	Spray Wand with 1/2" Female Inlet & 1/4" Female Outlet
C	0802.50	10.0	38	3500	238	Dual Lance Wand. High-Low Pressure for Chemical Injection

GUN, WAND & HOSE KIT



Model	PSI	bar	Description
9100.09	4000	270	50' x 3/8" MNPT Hose Assembly, Spray Gun & 36" Molded Grip Wand, Nozzle Protector and Quick Connectors

HOSE ASSEMBLY



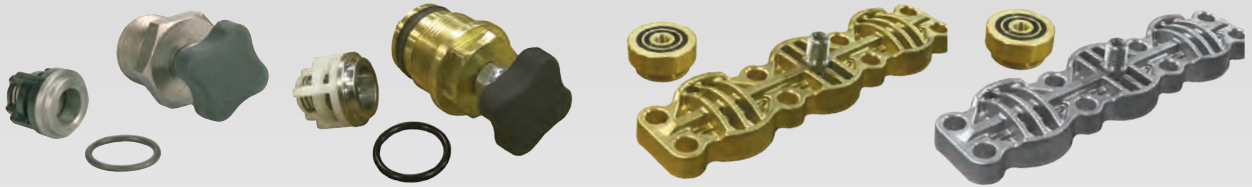
Model	PSI	bar	Description
9100.02	4000	270	Hose Assembly, 50' x 3/8" MNPT Swivel x Rigid w/ Protectors

NOZZLE HOLDERS



	Model	GPM	l/min	PSI	bar	Description
D	9200.03	10.0	38	4000	270	Nozzle Protector
E	9200.08	8.0	30	3500	238	Adjustable Nozzle Holder Allows for Chemical Injection

PULSING VALVES



Model	Description
1603.93PV	Pulsing Valve Assembly for GK Series Pumps up to 8 GPM. MAX. 4000 PSI
1603.94PV	Pulsing Valve Assembly for MK Series Pumps. MAX. 4000 PSI
1603.B5PV	Pulsing Valve Assembly for CK/GK Series Pumps over 10 GPM. MAX. 3000 PSI
1603.D2PV	Pulsing Valve Assembly for PENTA Series Pumps w/Brass Head Only. MAX. 4000 PSI
1603.L9PV	Pulsing Valve Assembly for CK Series Pumps up to 9 GPM. MAX. 4000 PSI
PULSEKIT-1	Pulsing Valve Kit. VX-75/95 Series Pumps
PULSEKIT-2	Pulsing Valve Kit. VX-100/130/160/200 Series Pumps
PULSEKIT-3	Pulsing Valve Kit. VXX Series Pumps

GAUGE PORT VALVE CAPS

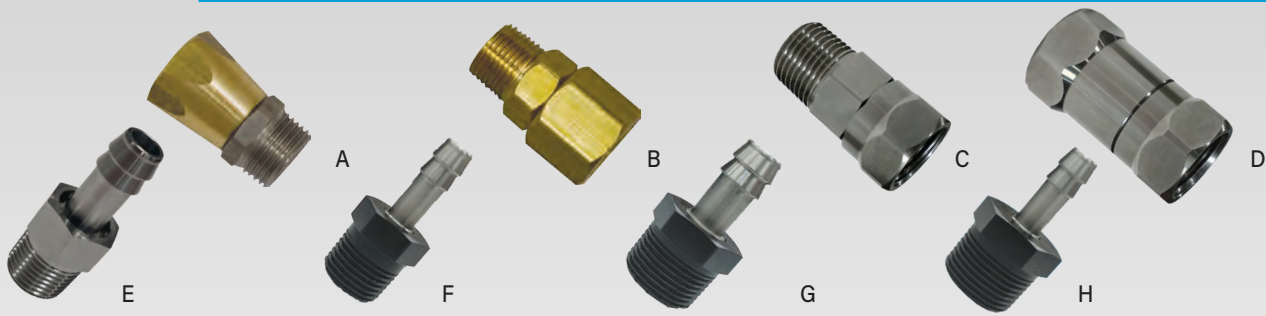


Model	Description
1603.97	1/4" FNPT Gauge Port Valve Cap for P Series Pumps
1603.98	1/4" FNPT Gauge Port Valve Cap for B/M Series Pumps
1603.99	1/4" FNPT Gauge Port Valve Cap for C/G Series Pumps
1603.A1	1/4" FNPT Gauge Port Valve Cap for MK Series Pumps
1603.A2	1/4" FNPT Gauge Port Valve Cap for CK/GK Series and NX-35/300 Pumps
1603.D5	1/4" FNPT Gauge Port Valve Cap for PENTA Series Pumps. Brass Head Only
1603.F4	1/4" FNPT Gauge Port Valve Cap for NX-55/200 and NX-75/150 Pumps
1603.L3	1/4" FNPT Gauge Port Valve Cap for BK Series Pumps
1603.L8	1/4" FNPT Gauge Port Valve Cap for CK Series Pumps. HP 20 mm Models
1603.L9	1/4" FNPT Gauge Port Valve Cap for CK Series Pumps. 22/25 mm Models

QUICK DISCONNECT COUPLERS



Model	Description
A 9200.01	3/8" FNPT Quick Disconnect Socket
B 9200.02	3/8" MNPT Quick Disconnect Plug
C 9200.09	3/8" FNPT Quick Disconnect Plug



Model	Description
A 26.1502.45	Brass Swivel. 1/2" FBSP x 1/2" MBSP. Fits Std & Ind Turbo Gun. Max. 1000 PSI
B 9016F6M	Brass Swivel. 3/8" FNPT x 3/8" MNPT. 1000 PSI
B 9018F8M	Brass Steel Swivel. 1/2" FNPT x 1/2" MNPT. 1000 PSI
C 9028F8M	Stainless Steel Swivel. 1/2" FNPT x 1/2" MNPT. 1000 PSI
C 9028F8M/T	Stainless Steel Swivel. 1/2" Female BSP x 1/2" MNPT for 7.901.103 & 13.901.151. 1000 PSI
D 9028F8F	Stainless Steel Swivel. 1/2" FN{T x 1/2" FNPT 1000 PSI
D 9028F8F/T	Stainless Steel Swivel. 1/2" Female BSP x 1/2" FNPT for 7.901.103 & 13.901.151. 1000 PSI
E 7016.00	Stainless Steel Hose Barb Swivel. 1/2" MNPT x 1/2" Hose Barb. Max. 350 PSI
F 7016.01	Stainless Steel & POM Resin Hose Barb Swivel. 1/2" MNPT x 3/8" Hose Barb. Max. 350 PSI
G 7016.02	Stainless Steel & POM Resin Hose Barb Swivel. 3/4" MNPT x 1/2" Hose Barb. Max. 350 PSI
H 7016.03	Stainless Steel & POM Resin Hose Barb Swivel. 3/4" MNPT x 3/8" Hose Barb. Max. 350 PSI



Model	Description
9800.00	Hex Nipple 1/4" MNPT Steel
9800.01	90 Degree Elbow 1/4" MNPT Steel
9800.02	Reducer 3/8" FPT x 1/4" MNPT Steel
9800.03	Hex Nipple 3/8" MNPT Steel
9800.04	90 Degree Elbow 3/8" MNPT x 3/8" MNPT Steel
9800.05	90 Degree Elbow 3/8" MNPT x 3/8" FNPT Steel
9800.06	Bushing 1/2" MNPT x 1/4" FNPT Steel
9800.07	90 Degree Elbow 1/2" MNPT x 3/8" FNPT Steel
9800.08	Hex Nipple 1/2" MNPT Steel
9800.09	90 Degree Elbow 1/2" MNPT x 1/2" FNPT Steel
9800.10	Reducer Coupling 3/8" FNPT x 1/4" FNPT Steel
9800.11	90 Degree Elbow 1/2" MNPT x 1/2" MNPT Steel
9200.00	3/8" Hose Barb Elbow x 3/8" MNPT Brass
9900.00	3/8" Hose Barb x 3/8" MNPT Brass
9900.01	1/2" Hose Barb x 1/2" MNPT Brass
9900.02	Garden Hose Swivel x 1/2" MNPT Brass
1290.B6	3/8" MNPT x 3/4" High-Flow Inlet Hose Barb - Nylon
1290.B7	1/2" MNPT x 1" High-Flow Inlet Hose Barb - Nylon
1290.B8	3/4" MNPT x 1" High-Flow Inlet Hose Barb - Polypropylene



Model	Description
6064.01	Packing Insertion Tool 15mm. P Series
6064.02	Packing Insertion Tool 18mm. P Series
6064.03	Packing Insertion Tool 18mm. B/BK/M/MK Series
6064.04	Packing Insertion Tool 20mm. B/BK/M/MK Series
6064.05	Packing Insertion Tool 22mm. C/CK/G/GK Series
6064.06	Packing Insertion Tool 25mm. C/CK/G/GK Series
6064.07	Packing Insertion Tool 28mm. C/CK/G/GK Series
6064.08	Packing Insertion Tool 20mm. CK/GK Series
8708.03	Plunger Pump Repair Tool Kit
8708.04	Extractor Kit
8708.04K	Extractor O-Ring Kit

UDOR LUBE

SAE 40W non-detergent lubricant. Specially formulated for use in UDOR diaphragm and plunger pumps.

- Non-Detergent. Non-Foaming
- Rust Inhibitors
- Anti-wear Agents
- Resists Breakdown Due to Oxidation
- Synthetic Oil Recommended for Cold Weather Uses



Model	Description
15.5823	UDOR LUBE - 1 Quart Bottle
15.5823S	UDOR LUBE - Synthetic / Low Temp - 1 Quart Bottle

UDOR USA SALES POLICY

UDOR USA reserves the right to refuse to conduct business with any company that is not in good credit standing or that is not determined to be a qualified equipment manufacturer, wholesaler or distributor.

SHIPPING STOCK ORDERS

All orders will be shipped by UPS, FedEx, USPS and International we use DHL. For LTL truck orders all shipping is Prepaid and Add (PPA). Customer may specify LTL carrier on purchase order.

ORDER PROCEDURE

To place orders please submit your purchase orders via email to sales@udorusa.com or via fax to 800-732-2670. To call in your orders or for general questions, please call us at 651-785-0666 between 8 a.m. & 5 p.m. Central Time.

MINIMUM ORDER

UDOR USA has a minimum order required amount of \$25.00 USD, which may include Drop Ship Charge.

DROP SHIPS

UDOR USA will drop ship directly to your customer for a \$15.00 drop ship service fee per order.

OPEN CREDIT TERMS & CONDITIONS

Our standard term is Net 30 days. Once approved UDOR USA will send an approval letter which specifies account number and credit limit.

FORMS OF PAYMENT

For approved Net 30 terms UDOR USA will accept Checks, ACH, Wire, Credit Cards, Virtual CC payments and Cash. Credit Cards Udor USA accepts are Visa, Master Card, Discover Card and American Express. Special Processes and fees are required for Discover and American Express. If paid via Credit Card, there may be an additional 3% charge for processing fees.

PAST DUE INVOICES

Receiving open credit terms from UDOR USA is a result of good faith and your ability to meet payment terms. Our system generates an invoice the day your product is shipped. Invoice(s) are considered past due 1 day after your specific terms that were agreed upon, unless otherwise specified by UDOR USA. Past due invoices can be subject to late fees and interest.

RETURNED CHECKS

Bank Returned Payments formerly known as NSF. Electronic or Paper
A \$36.00 or current NSF charge the bank charges for returned checks (electronic or paper) will be added to your account. We will notify Accounts Payable Dept. to resolve payment issue.

REFER TO THE PROPER PUMP BREAKDOWN AND PLUNGER PUMP SERVICE GUIDE BEFORE PERFORMING ANY MAINTENANCE OR SERVICING OF THE PUMP. www.udorusa.com

UDOR plunger pumps “pump volume”, not pressure. The pressure is determined by adjusting the pressure relief valve or unloader valve and selecting the proper orifice size of spray nozzle or nozzles.

NEVER run any UDOR plunger pump without a pressure relief valve or unloader valve installed on the pump or in the discharge plumbing.

PROBLEM	CAUSE	REMEDY
<ul style="list-style-type: none"> • LOW PRESSURE 	<ol style="list-style-type: none"> 1) Worn or plugged nozzle 2) Belt Slippage 3) Air leak in inlet plumbing 4) Pressure gauge inoperative or not registering accurately 5) Relief/unloader valve worn, partially plugged or improperly adjusted 6) Inlet suction strainer clogged or improper size (too small) 7) Worn wet end seals; Abrasives in pumped fluid or severe cavitation; Inadequate water supply 8) Fouled or dirty inlet or discharge valves 9) Worn inlet or discharge valves 10) Leaky discharge hose 	<ul style="list-style-type: none"> • Replace or clean nozzle; check for proper size • Tighten or replace belts • Disassemble, reseal and reassemble; use blue threadlocker • Check with new gauge; replace worn or damaged gauge • Repair/replace and adjust relief/unloader valve • Clean; use a proper size; check more frequently • Install and maintain proper filter; replace seals; check inlet water supply; Max. 6 in. inlet vacuum • Clean inlet and discharge valve assemblies • Replace worn valves • Replace discharge hose
<ul style="list-style-type: none"> • PUMP RUNS EXTREMELY ROUGH • PRESSURE VERY LOW 	<ol style="list-style-type: none"> 1) Restricted inlet or air entering the inlet plumbing 2) Inlet restrictions and/or air leaks; stuck inlet or discharge valves 3) Plugged inlet filter 	<ul style="list-style-type: none"> • Proper size inlet plumbing; check for air tight seal at fittings and filter • Replace worn seals; clean out material in valves or replace worn valves • Clean or replace filter
<ul style="list-style-type: none"> • WATER LEAKAGE FROM UNDER THE MANIFOLD 	<ol style="list-style-type: none"> 1) Worn wet end seals 2) Cracked plungers 	<ul style="list-style-type: none"> • Replace seals • Replace plungers
<ul style="list-style-type: none"> • OIL LEAK BETWEEN CRANKCASE AND PUMP HEAD 	<ol style="list-style-type: none"> 1) Worn crankcase oil seals 2) Scored or damaged plunger rods 	<ul style="list-style-type: none"> • Replace crankcase oil seals • Replace plunger rods
<ul style="list-style-type: none"> • OIL LEAKING IN THE AREA OF CRANKSHAFT 	<ol style="list-style-type: none"> 1) Worn crankshaft seal or case o-ring 2) Bad bearing 	<ul style="list-style-type: none"> • Replace crankshaft seal or case o-ring • Replace bearing
<ul style="list-style-type: none"> • EXCESSIVE PLAY IN THE END OF THE CRANKSHAFT 	<ol style="list-style-type: none"> 1) Worn bearings 	<ul style="list-style-type: none"> • Replace bearings
<ul style="list-style-type: none"> • WATER IN CRANKCASE OIL 	<ol style="list-style-type: none"> 1) May be caused by humid air condensing into water inside the crankcase 2) Worn or improperly installed wet end seals 	<ul style="list-style-type: none"> • Change oil at 3 month or 500 hour intervals using UDOR LUBE (or SAE 30W non-detergent oil) • Replace seals; follow proper installation procedures (refer to UDOR USA Plunger Pump Service Guide) or contact UDOR pump supplier for servicing
<ul style="list-style-type: none"> • OIL LEAKING AT THE REAR PORTION OF THE CRANKCASE 	<ol style="list-style-type: none"> 1) Damaged or improperly installed sight glass or crankcase rear cover gasket or drain plug gasket 	<ul style="list-style-type: none"> • Replace sight glass, crankcase cover gasket or drain plug gasket
<ul style="list-style-type: none"> • LOUD KNOCKING NOISE IN PUMP 	<ol style="list-style-type: none"> 1) Pulley loose on crankshaft 2) Broken or worn bearing 	<ul style="list-style-type: none"> • Check shaft key and tighten set screw or bolts • Replace bearings
<ul style="list-style-type: none"> • FREQUENT OR PREMATURE FAILURE OF THE WET END SEALS 	<ol style="list-style-type: none"> 1) Scored plungers 2) Over-pressure to inlet manifold 3) Abrasive material in the fluid being pumped 4) Excessive temperature of fluid being pumped 5) Running pump dry 	<ul style="list-style-type: none"> • Replace plungers • Reduce inlet pressure; Max. 75 PSI • Install proper filtration on pump inlet plumbing • Assure fluid inlet temperature is within specified range; Max. 160° F • DO NOT run pump without fluid / Replace seals
<ul style="list-style-type: none"> • STRONG SURGING AND LOW PRESSURE DISCHARGE 	<ol style="list-style-type: none"> 1) Foreign particles in the inlet or discharge valves or worn inlet and/or discharge valves 2) Worn wet end seals 	<ul style="list-style-type: none"> • Clean valves or replace worn valves; check supply tank for contamination; install and regularly clean filter; never pump abrasive fluids • Replace seals

WARNING: UDOR Plunger Pumps are positive displacement pumps, therefore a properly designed pressure relief valve or unloader valve must be installed on the pump or in the discharge plumbing. A secondary safety relief valve is also recommended. Failure to install a pressure relief valve or unloader valve could result in personal injury, property damage or damage to the pump or system and void any warranty. In no way does UDOR USA assume any liability or responsibility for the construction or operation of a customer's or potential customer's high pressure system.

LOCATION: If the pump is used in dirty or humid conditions, it is recommended that the pump be enclosed. Do not store or operate in excessively high temperature areas or without proper ventilation.

MOUNT: Mount the pump on a rigid, horizontal surface in such a way as to permit drainage of crankcase. An uneven mounting surface will cause damage to the pump. Use appropriate flexible hose to the inlet and discharge ports. Use the proper belts, making sure pulleys are aligned. Excessive belt tension can be harmful to bearings. For CK Series gear reduction applications, pump must have support rail with vibration isolators or an UDOR torque plate installed. Contact UDOR U.S.A. for information.

PUMP ROTATION: UDOR Plunger Pumps are designed for forward rotation to allow optimum lubrication of the crosshead area. Reverse rotation is acceptable if the crankcase oil level is increased slightly above the center dot to assure proper lubrication.

PUMP SPEED: Do not over speed the pump. UDOR Plunger Pumps are designed to operate at or below a specific RPM. Over speeding will cause valves and seals to prematurely fail and could cause other internal damage. Refer to the performance chart or breakdown of your specific pump for maximum operating RPM

LUBRICATION: Fill the crankcase with UDOR LUBE Premium Pump Oil or SAE 30W non-detergent oil per pump specifications. DO NOT run pump without oil in crankcase. Change oil after initial 50 hour break-in and every 500 hours or 3 months there-after. For any pump with a gear reduction, make sure the gear box is filled to the center of the sight glass with 90 wt. gear lube before operating.

PUMPED FLUIDS: Some fluids may require a flush between operations or before storing. For information regarding pumping fluids other than water, please contact UDOR U.S.A.

INLET CONDITIONS: Ensure proper inlet flow. DO NOT STARVE THE PUMP OR RUN PUMP DRY!

DISCHARGE PLUMBING: DO NOT START PUMP UNLESS A PRESSURE RELIEF VALVE OR UNLOADER VALVE IS INSTALLED. OPEN ALL VALVES BEFORE STARTING THE SYSTEM TO AVOID DEADHEAD OVERPRESSURE CONDITION AND SEVERE DAMAGE TO THE PUMP OR SYSTEM.

PULSATION DAMPENERS: (Optional) Install dampener directly into discharge line. Make sure the pulsation dampener is properly pre-charged for the system pressure.

PRESSURE GAUGE: Install pressure gauge near the discharge outlet of the high pressure manifold or in the discharge plumbing. This is extremely important for adjusting the pressure relief valve / unloader valve and for proper sizing of the nozzle or restricting orifice. The pump is rated for a maximum pressure, which should be read at the discharge manifold of the pump only, not at the gun or nozzle.

PRESSURE RELIEF VALVE/UNLOADER VALVE: A pressure relief valve or unloader valve must be installed to prevent over pressurizing and severely damaging the pump if the discharge is turned off or becomes plugged. Pressure relief valves / unloader valves should be at minimum pressure setting at start-up. On any high pressure system, secondary protection, such as a pop-off valve or safety valve, is recommended. Start system with all valves open or in the low pressure setting.

CAUTION: FAILURE TO INSTALL A PRESSURE RELIEF VALVE OR UNLOADER VALVE WILL VOID THE WARRANTY ON THE PUMP.

NOZZLES: A worn nozzle will result in loss of pressure. Do not adjust the pressure relief valve / unloader valve to compensate for pressure loss. Replace nozzle and reset the pressure relief valve / unloader valve to proper system pressure.

STORING: For extended storage or between use in cold climates, drain all pumped fluids from the pump and complete system and flush with a 50/50 mixture of antifreeze and water to prevent freezing and damage to the pump. DO NOT run pump with frozen fluid. Before restarting the pump after anti-freezing, make sure to purge all anti-freeze from pump and complete system at low pressure only. Anti-freeze will foam under high pressure and can cause severe damage to the pump and pressure regulator. FAILURE TO FOLLOW THIS STEP WILL VOID ANY AND ALL WARRANTIES.

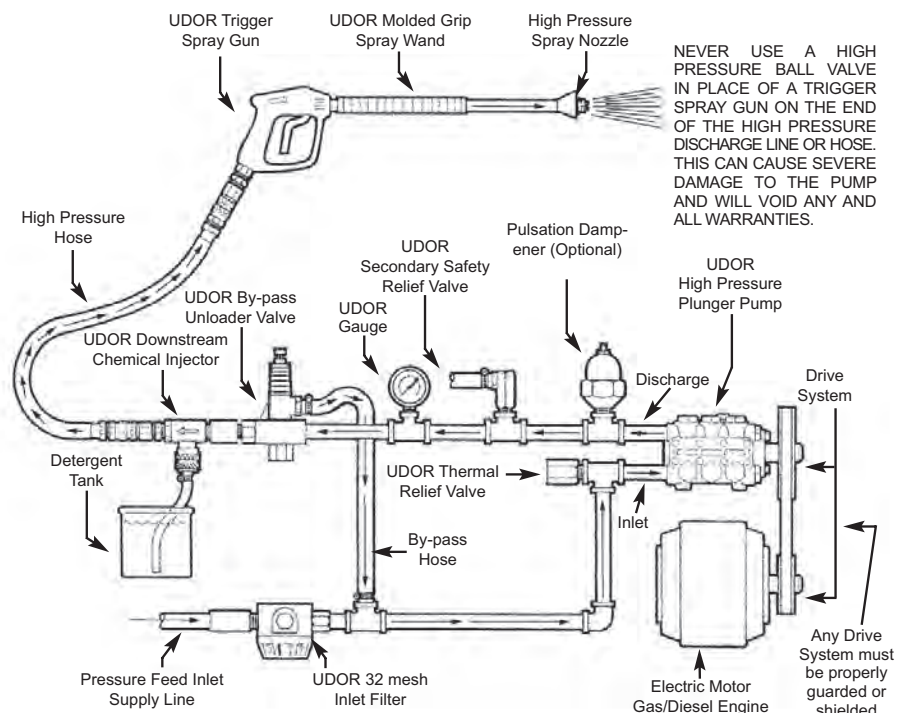
UDOR USA BASIC PRESSURE FEED HIGH PRESSURE CLEANING SYSTEM PLUMBING DIAGRAM

NOTE: This is a basic pressure feed plumbing diagram and is not recommended for all systems. Consult UDOR USA for specific system requirements and components.

On any multiple gun system never use a standard unloader style valve; these valves are designed for full on or full off only. A balance relief valve must be used for multiple gun systems.

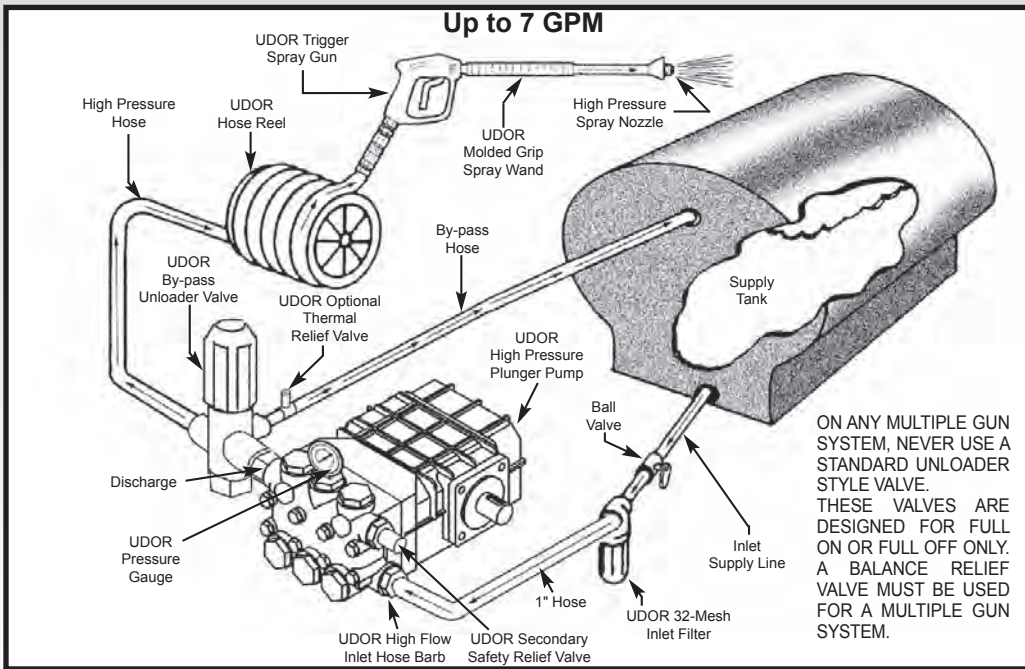
Use blue threadlocker or equivalent on all plumbing components, fittings and accessories.

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.



BASIC PLUNGER PUMP TANK FEED HIGH PRESSURE CLEANING SYSTEM PLUMBING DIAGRAMS

These are basic tank feed plumbing diagrams and are not recommended for all systems. Consult UDOR USA for specific system requirements and components.



NOTE: On any tank feed system each pump must be fed by its own separate feed line only. Never feed multiple pumps with one common feed line.

FEED TANK SIZE: A recommended minimum feed tank size is 6-10 times the maximum GPM output rating of the pump or pumps being used.

SAMPLE: 10 GPM PUMP x 6= 60 GALLON MINIMUM FEED TANK SIZE.

MAKE SURE ALL FEED TANKS HAVE PROPER BAFFLES AND VENTING.

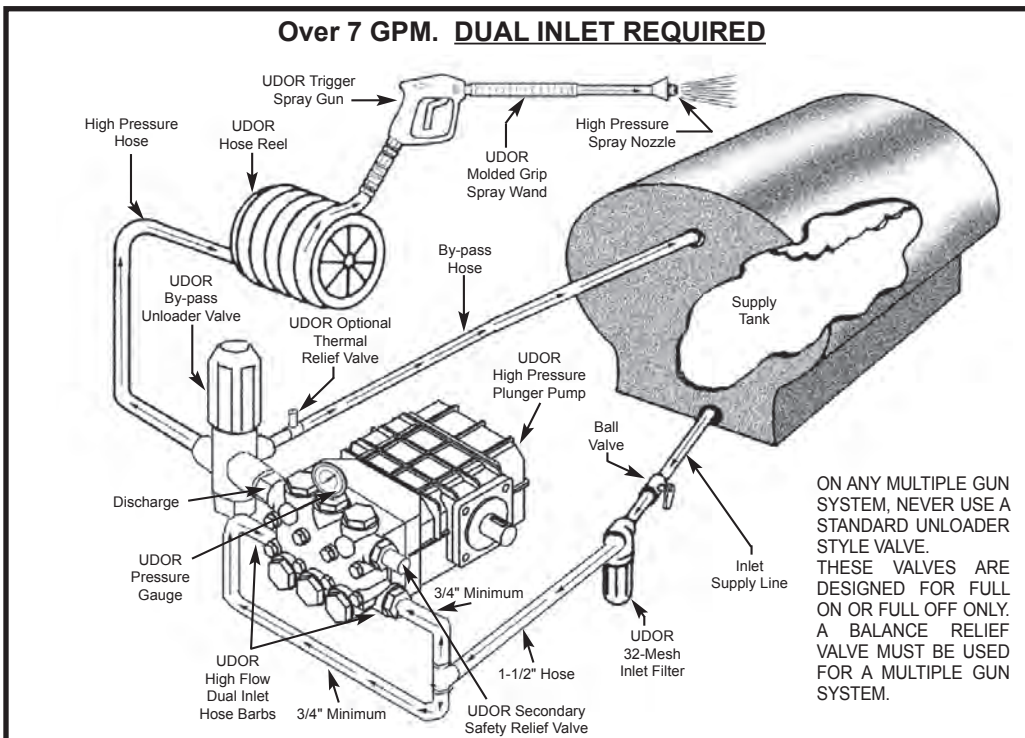
USE BLUE THREADLOCKER OR EQUIVALENT ON ALL PLUMBING COMPONENTS, FITTINGS AND ACCESSORIES.

NEVER USE A HIGH PRESSURE BALL VALVE IN PLACE OF A TRIGGER SPRAY GUN ON THE END OF THE HIGH PRESSURE DISCHARGE LINE OR HOSE. THIS CAN CAUSE SEVERE DAMAGE TO THE PUMP AND WILL VOID ANY AND ALL WARRANTIES.

Always keep the by-pass line as far away as possible from the inlet supply line to prevent aeration or cavitation of the fluid being pumped.

MINIMUM PLUMBING REQUIREMENTS	Pump GPM	Min. Feed Line Size	Inlet Filter (40 Mesh Max.)	NOTE: All plumbing accessories should be the same or greater diameter as the feed line. All ball valves should be full port valves only.
	2 - 4 GPM	3/4"	3/4" 20-40 Mesh Screen	
	5 - 7 GPM	1"	1" 20-40 Mesh Screen	
	8 - 19 GPM	1-1/4"	1-1/4" 20-40 Mesh Screen	
	20 - 30 GPM	1-1/2"	1-1/2" 20-40 Mesh Screen	

WARNING: Consult UDOR U.S.A. for plumbing requirements on high speed, 3400 RPM Direct Drive Pumps.



NOTE: On any tank feed system each pump must be fed by its own separate feed line only. Never feed multiple pumps through BOTH inlets to ensure proper flow and prevent cavitation and damage to the pump.

NOTE: For Tank Feed Systems over 7 GPM, feed pumps through BOTH inlets to ensure proper flow and prevent cavitation and damage to the pump.

FEED TANK SIZE: A recommended minimum feed tank size is 6-10 times the maximum GPM output rating of the pump or pumps being used.

SAMPLE: 10 GPM PUMP x 6= 60 GALLON MINIMUM FEED TANK SIZE.

MAKE SURE ALL FEED TANKS HAVE PROPER BAFFLES AND VENTING.

USE BLUE THREADLOCKER OR EQUIVALENT ON ALL PLUMBING COMPONENTS, FITTINGS AND ACCESSORIES.

NEVER USE A HIGH PRESSURE BALL VALVE IN PLACE OF A TRIGGER SPRAY GUN ON THE END OF THE HIGH PRESSURE DISCHARGE LINE OR HOSE. THIS CAN CAUSE SEVERE DAMAGE TO THE PUMP AND WILL VOID ANY AND ALL WARRANTIES.

Always keep the by-pass line as far away as possible from the inlet supply line to prevent aeration or cavitation of the fluid being pumped.

REPLACING PUMP VALVES

1. All inlet and discharge valves can be serviced without disrupting the inlet or discharge plumbing.
2. To service the valves, remove valve caps.
3. Remove the valve assembly from the valve cavity.
4. Remove o-ring from valve cavity.
5. Only one valve kit is necessary to replace all the valves in the pump. The kit includes new valve o-rings and valve assemblies.
6. Install o-ring into cavity.
7. Insert valve assembly into valve cavity.
8. Install valve cap and torque to specifications. NOTE: Use "blue" threadlocker or equivalent on all valve caps.

REMOVING PUMP HEAD

1. Remove the bolts from the pump head.
2. Separate the head from the crankcase. NOTE: It may be necessary to tap head lightly with a plastic or rubber mallet to loosen.

CAUTION: Do not damage plungers when removing the head.

3. The packing assemblies typically come off with the head. At this point, inspect ceramic plungers. Plunger surfaces should be smooth and free from scoring and cracks. IF NOT, replace plunger.

REPLACING CERAMIC PLUNGERS

1. Remove plunger nut or bolt, then remove plunger from piston rod.
2. If slinger washer comes off with the plunger, be certain this is reinstalled or replaced before a new plunger is installed.
3. Separate plunger bolt from plunger.
4. Install new o-ring, PTFE back-up ring and washer on plunger bolt or stem. NOTE: A film of grease on the outside of the o-rings ensures a better installation.
5. Carefully insert plunger bolt into plunger. NOTE: Use "red" threadlocker or equivalent on all plunger nuts or bolts.
6. Slide new plunger over the piston guide and torque to specifications.

REPLACING WET END SEAL KIT

1. Insert proper seal stack extractor tool or reversible pliers through seal retainer. Extract retainers, packings and spreader rings.
2. Only one seal kit is necessary to replace the wet end seals in the pump. The kit includes low pressure seals, high pressure seals, spreader rings and long life rings.
3. Place proper seal insertion sleeve into cylinder and install plastic spreader ring into bottom of the cylinder flat side down. Insert brown high pressure seal into seal insertion sleeve flat side up and tap firmly into place. Remove insertion sleeve.
4. Install long life ring on top of the high pressure seal and insert middle brass ring.
5. Install the black low pressure seal into upper brass ring (flat side goes into the upper brass ring), lightly grease the outer o-ring and insert into cylinder.
6. Coat each plunger and seal stack with grease and carefully reinstall the pump head. NOTE: It may be necessary to tap pump head lightly with a plastic or rubber mallet. Install head bolts and torque to specifications.

CHANGING PUMP OIL

1. Change pump oil after the first 50 hour break-in period, then change pump oil after every 500 hours of use.
2. Remove oil drain plug from back cover or under pump. Drain oil.
3. Re-install oil drain plug.
4. Fill pump crankcase with UDOR LUBE Premium Pump Oil or SAE 30W non-detergent oil to the recommended mark on the oil sight glass/gauge, about halfway on the oil sight glass/gauge.

WARNING!: UDOR Plunger Pumps are positive displacement pumps, therefore a properly designed pressure relief valve or unloader valve must be installed on the pump or in the discharge plumbing. A secondary safety relief valve is also recommended. Failure to install a pressure relief valve or unloader valve could result in personal injury, property damage or damage to the pump or system and void any warranty. In no way does UDOR USA assume any liability or responsibility for the construction or operation of a customer's or potential customer's high pressure system.

- 1) A Return Merchandise Authorization (RMA) number is required for all products being returned for warranty evaluation, repair or credit. To obtain an RMA number, please contact UDOR USA customer service at 651-785-0666.
- 2) All products returned for credit are subject to a minimum 10 percent restocking fee based on product evaluation.
- 3) Flush pump to remove any and all chemicals. Drain all pump oil and gear lube.
- 4) The RMA number must appear on the outside of all packages being returned.
- 5) All RMA numbers will be valid for 60 days from date issued. If product is not received within 60 days a new RMA number must be issued.
- 6) Freight for return product is the responsibility of the customer; all products returned must be freight prepaid. Ship to:

UDOR USA / RETURNS
6180 140th Avenue NW
Ramsey, MN 55303

Any collect shipments or any product returned without an RMA number will be refused and returned to sender.

- 7) Any product being returned for warranty evaluation must not be disassembled. Disassembly of the product will void any and all warranties.
- 8) UDOR USA will repair or replace products qualified as defective upon inspection that are judged to be defective due to workmanship or material failure under UDOR USA limited product warranty.
- 9) Customers requiring immediate product replacement for items submitted for warranty evaluation will be invoiced at current price. Limited product warranty will apply to all return products.
- 10) Any product that has been left here past 60 days after contact from UDOR USA will become property of UDOR USA and will be properly disposed.

NOTE:

All pumps and accessories being returned to UDOR USA for repair or warranty evaluation must be flushed of any and all chemicals. This also pertains to crankcases that have contaminated oil. Any pump received that has not been properly flushed will be immediately returned to sender freight collect. This policy has been put into place to protect our personnel from possible exposure to hazardous or unknown substances.

In the course of marketing or servicing the customer or potential customer's needs, UDOR USA will use its best judgment in its product recommendations. However, the ultimate responsibility for product application decisions shall rest with the customer. The sole and only warranty made by UDOR USA is the limited warranty described below.

**LIMITED PRODUCT WARRANTY
UDOR Plunger Pumps & Accessories**

UDOR Standard Series P, PK, B, BK, C, CK, CH, CX and TC Plunger Pumps are warranted by the manufacturer to the original purchaser to be free from defects in materials and workmanship under normal use and service for a period of five (5) years.

UDOR Industrial Series GAMMA, NK, PENTA, VH, VX, VXX, VY, HX and HXR Plunger Pumps are warranted by the manufacturer to the original purchaser to be free from defects in materials and workmanship under normal use and service for a period of one (1) year.

UDOR Accessories are warranted to be free from defects in materials and workmanship under normal use and service for a period of ninety (90) days.

"Normal use and service" is defined as applications not in excess of recommended maximum speeds, pressures, temperatures or vacuums, only handling fluids which are compatible with pump or accessory materials and maintaining proper oil change intervals.

"Proper oil change intervals" for Plunger Pumps is changing PUMP OIL after the first 50 hour break-in period, and after every 500 hours of use thereafter using UDOR LUBE Premium Pump Oil and UDOR USA original equipment parts.

This Warranty DOES NOT APPLY to freight damage, damage due to freezing, running pump dry or improper lubrication of crankcase, normal wear of moving parts, damage due to misuse or misapplication, defects caused by the fault or negligence of the buyer or third party, or damage due to use of parts or accessories not obtained from or approved by UDOR USA.

This Warranty also does not apply to any pump or accessory which has been altered or modified to affect its performance or reliability or any pump or accessory that has been returned disassembled.

This Warranty excludes "normal wear items" such as elastomers, seals and valves.

All pumps and accessories being returned to UDOR USA for repair or warranty evaluation must be flushed of any and all chemicals. This also pertains to crankcases that have contaminated oil. Any pump received that has not been properly flushed will be immediately returned to sender freight collect. This policy has been put into place to protect our personnel from possible exposure to hazardous or unknown substances.

All warranty evaluation returns must be accompanied by the original purchase invoice and a RMA number. If invoice is not included, UDOR USA will determine warranty by manufacturer's serial number and date of manufacture on the pump label. Any collect shipments or any product returned without a RMA number will be refused and returned to sender.

UDOR USA's obligation under this warranty is limited to repair or replacement of product in question, at UDOR's option, upon return of the product, freight prepaid, to UDOR USA. UDOR USA agrees to be responsible for return shipping costs ONLY on any approved warranty repair or replacement product via ground transportation ONLY. This warranty is in lieu of all other warranties expressed or implied, including any warranty of merchantability and any warranty of fitness for a particular purpose.

IN NO EVENT SHALL UDOR USA BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES OF ANY KIND. This includes lost income, travel time and expenses, lodging expenses, labor expenses, down time, shipping costs and any other INCIDENTAL or CONSEQUENTIAL damages or expenses.

The only and total liability of UDOR USA under this limited warranty or in any claim regarding or involving UDOR USA is expressly limited to the repair, replacement or purchase price of the product.

WARNING!: DO NOT PUMP OR FLUSH PUMP WITH ANY FLAMMABLE, EXPLOSIVE, CAUSTIC OR CORROSIVE FLUIDS. DO NOT USE ANY OF THESE PRODUCTS IN AN EXPLOSIVE ATMOSPHERE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE AND WILL VOID ANY AND ALL WARRANTIES.

This Warranty supersedes any and all previous Warranties.

Revised 9-1-2018

MORE PRODUCTS



UDOR[®] USA Diaphragm Pumps



ZETA SERIES



IOTA SERIES



KAPPA SERIES



DELTA SERIES



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BETA SERIES

Flow Rates Up To 106 GPM
Pressures Up To 725 PSI

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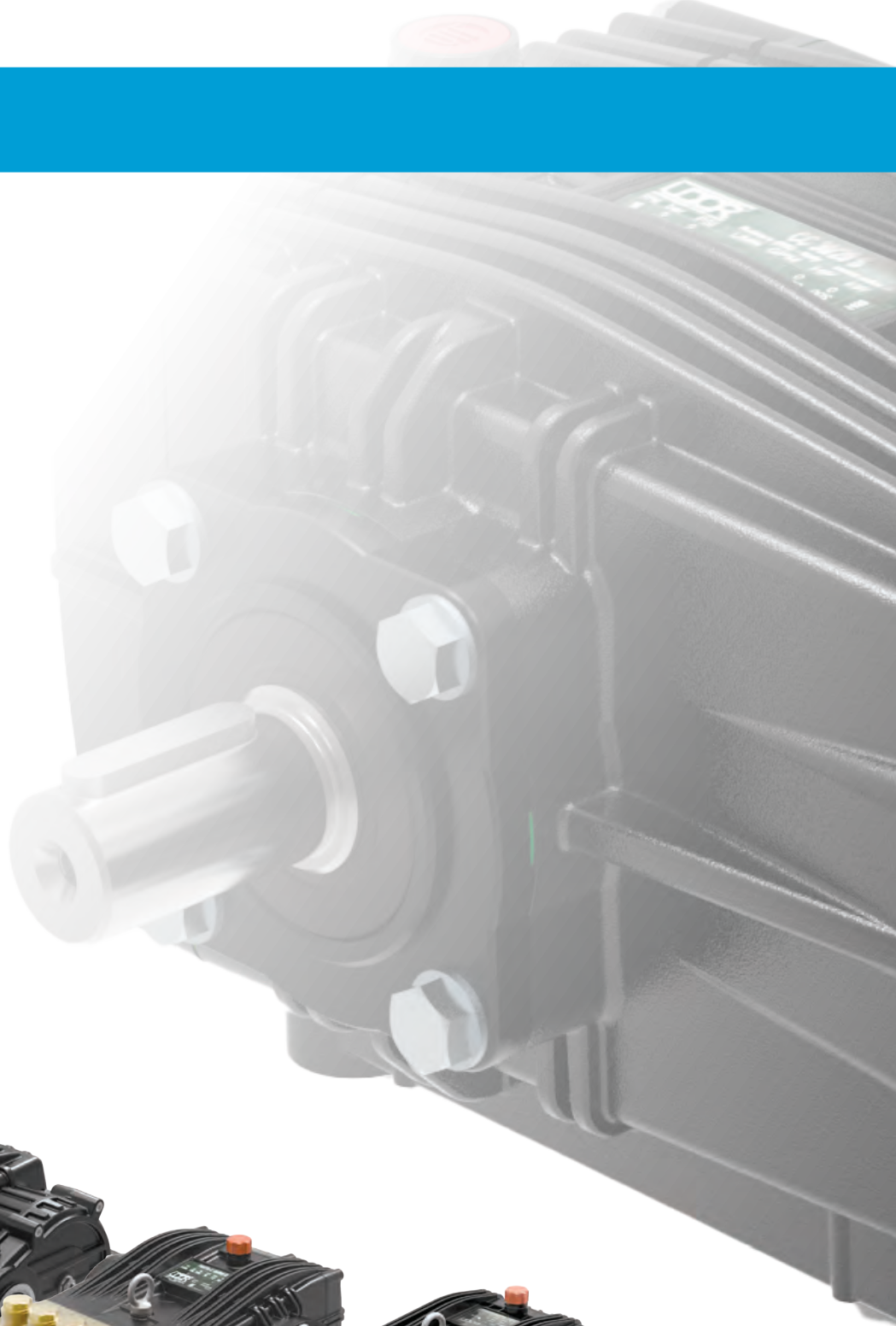
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