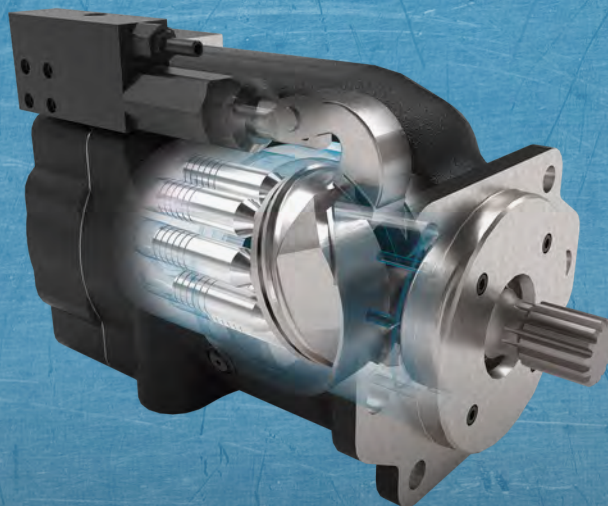


OILGEAR

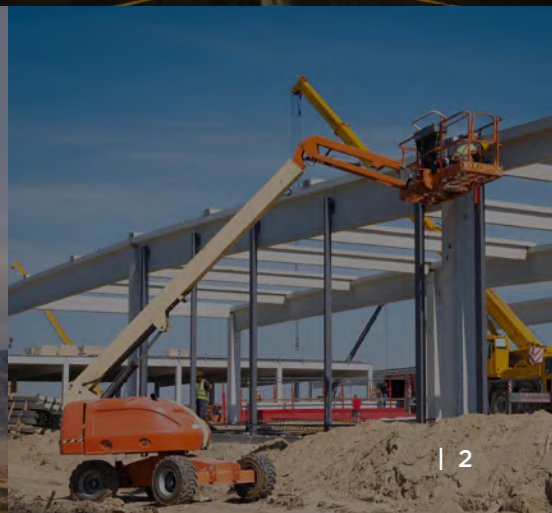
NEW XD5

**NOW MORE
POWER**

**— FROM A —
SMALLER
PACKAGE.**



learn more at www.oilgear.com



THE WORLD DEMANDS
OILGEAR

XD5-100 CONTINUOUS PERFORMANCE ADVANTAGE

The XD5-100 pump delivers more speed, more flow and more power for mobile applications. A variable-displacement, axial-piston pump with fast control response, the XD5-100 excels in applications using standard mineral oil or low viscosity fluids, providing durability in challenging environments and is available in a variety of control and porting options. Engineered to be a robust high-performance solution for demanding mobile applications.

■ UP TO 54% MORE POWER DENSITY

Pound for pound, XD5-100 delivers the best power density

■ MORE FLOW 63.8 GPM

Delivering up to 63.8 GPM, XD5-100 provides the flow you need for primary and auxiliary applications

■ MORE SPEED 2,450 RPMS AT FULL STROKE

Rated 2,450 RPM. For higher RPM applications, please seek factory guidance

■ UP TO 32% SMALLER SPACE CLAIM

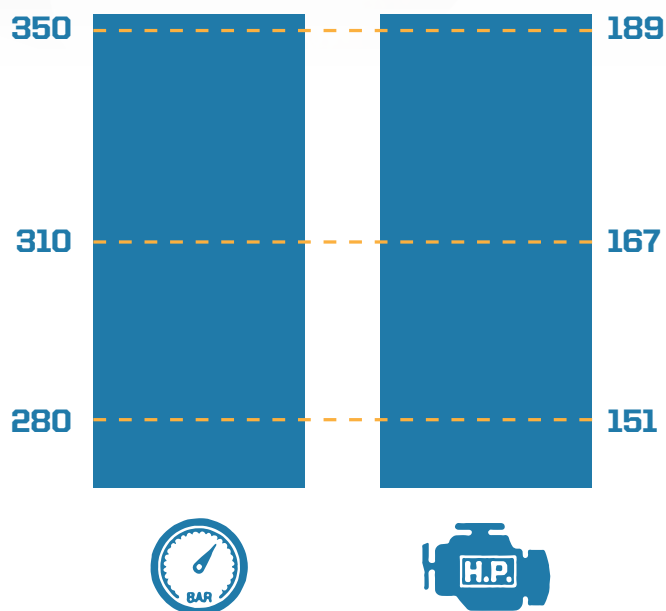
Smaller dimensional space claim makes first fit design and aftermarket drop-in-place easier

■ OILGEAR TECHNOLOGY INSIDE

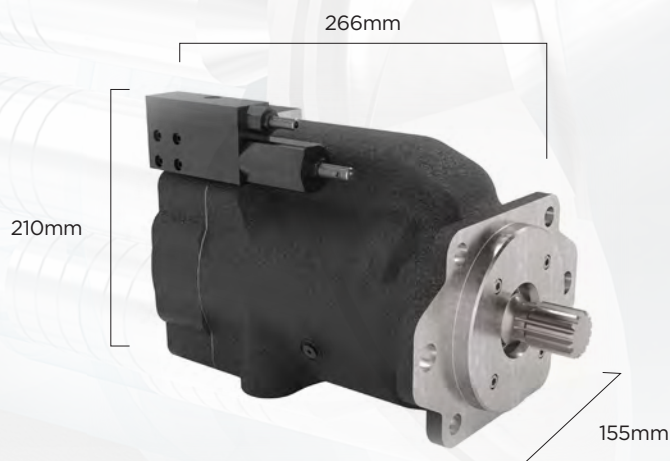
Our reputation for long-lasting pump technology packaged for mobile applications

YOU SET THE BAR

**XD5 SETS
THE STANDARD**



MAKING MACHINES GO AND PROBLEMS GO AWAY.®

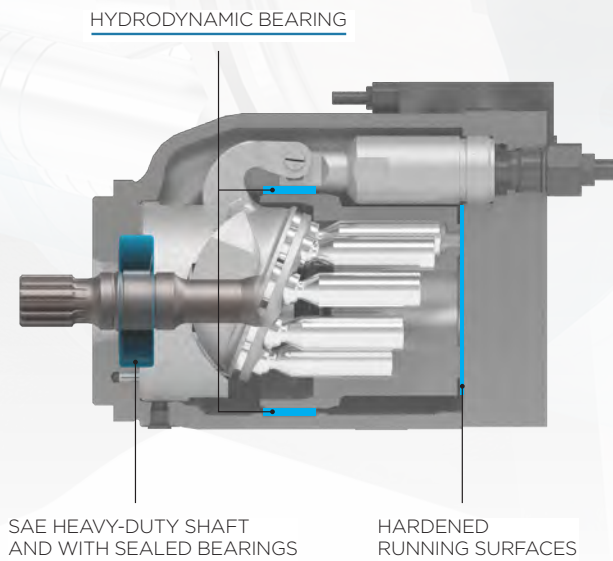


NEW XD5 NOW MORE FROM A SMALLER PACKAGE

	UNITS	XD5-100
THEORETICAL DISPLACEMENT	CU/REV [IN3/REV]	98.4 [6.00]
RATED PRESSURE - CONTINUOUS	BAR [PSI]	350 [5,076]
RATED PRESSURE - PEAK	BAR [PSI]	400 [5,800]
SHAFT SPEED - MAXIMUM FULL STROKE	RPM	2,450
SHAFT SPEED - MAXIMUM CONTINUOUS, MINIMUM STROKE	RPM	2,700
SHAFT SPEED - MAXIMUM INTERMITTENT, MINIMUM STROKE	RPM	3,000
CASE PRESSURE - STANDARD	BAR [PSI]	1.7 [25]
FLUID TEMPERATURE - OPERATING RANGE	C° [F°]	-10 TO 88 [14 TO 190]
FLUID TEMPERATURE - MINIMUM STARTING	C° [F°]	-40 [-40]
FLUID TEMPERATURE - MAXIMUM AT CASE DRAIN PORT	C° [F°]	110 [230]
FLUID VISCOSITY RANGE	SSU	65 TO 2,000
FLUID CLEANLINESS FOR NORMAL LIFE	ISO CODE	21/19/16
WEIGHT - REAR PORTED PUMP	KG [LBS]	33.1 [73]
ROTATIONAL MOMENT OF INERTIA - REAR PORTED PUMP	KG* M ² [LB•FT ²]	0.0131 [0.31]
WEIGHT - THROUGH SHAFT PUMP	KG [LBS]	37.6 [83]
ROTATIONAL MOMENT OF INERTIA - THROUGH SHAFT PUMP	KG* M ² [LB•FT ²]	0.0131 [0.31]

PROVEN ROBUSTNESS, BETTER RELIABILITY!

Improved speed and flow performance backed by Oilgear robust and reliable design. That's what you're getting with the new XD5 family. Our technology is known for delivering long pump life in even the harshest conditions. Our lasting success comes from proprietary hardened surfaces, hydrodynamic bearing and SAE heavy-duty shaft.



HARDENED RUNNING SURFACES

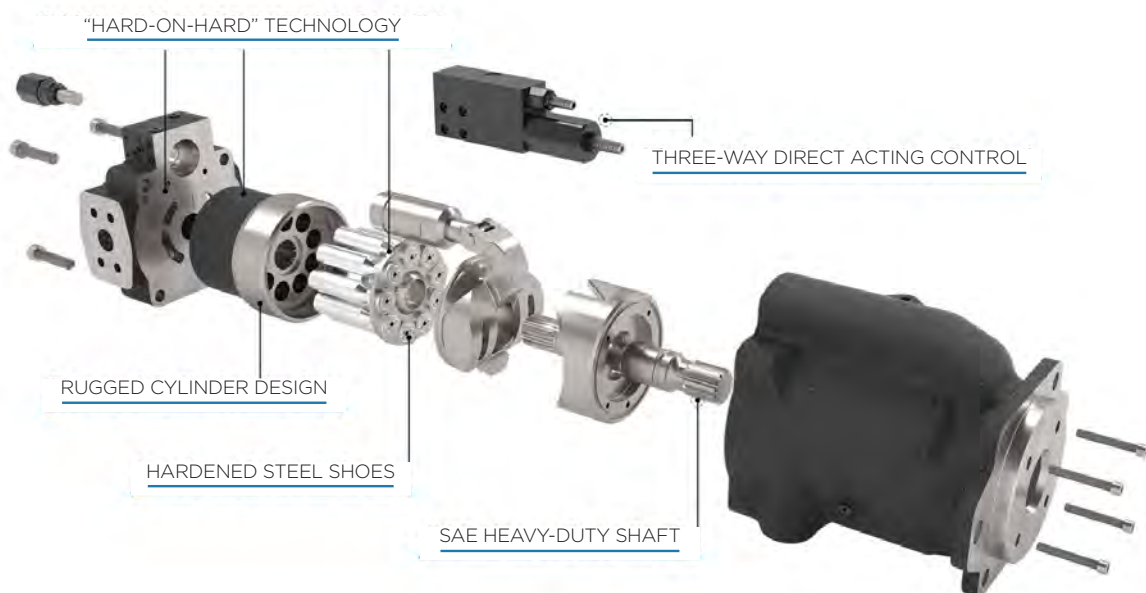
Oilgear's proprietary hardening formula for steel components extends pump life

HYDRODYNAMIC BEARING

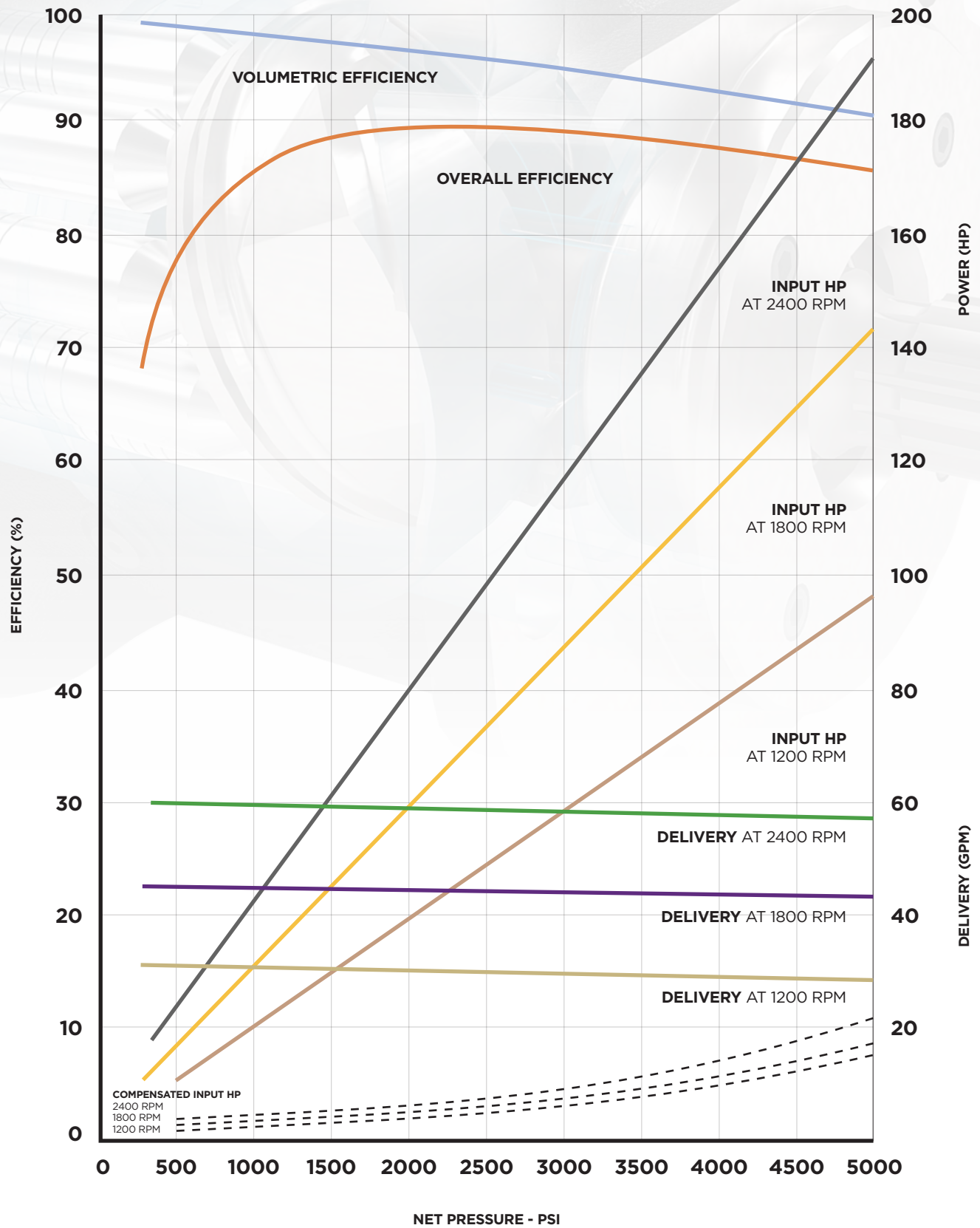
Polymerous (journal type) bearing that supports the rotating group assembly. Contains no rolling elements and is lubricated by system fluid

SAE HEAVY-DUTY SHAFT AND WITH SEALED BEARINGS

Sealed front shaft bearings for operating with standard hydraulic oil and low-viscosity fluids



PERFORMANCE DATA XD5-100

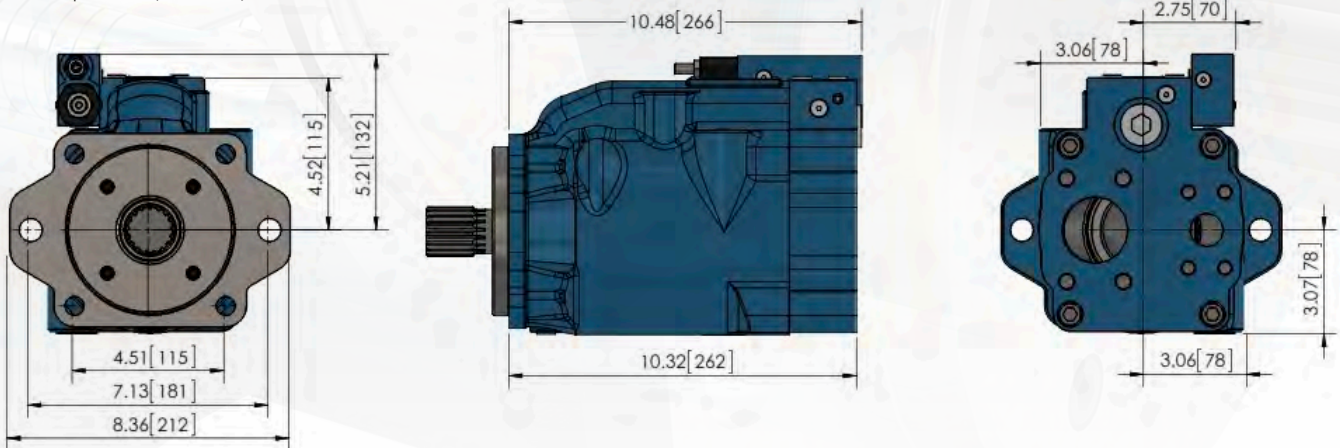


SMALLER FOOTPRINT, ACCOMMODATING DESIGN CHANGES!

PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET 1" SAE CODE 62 FLANGE	1" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#12 SAE Threaded Port

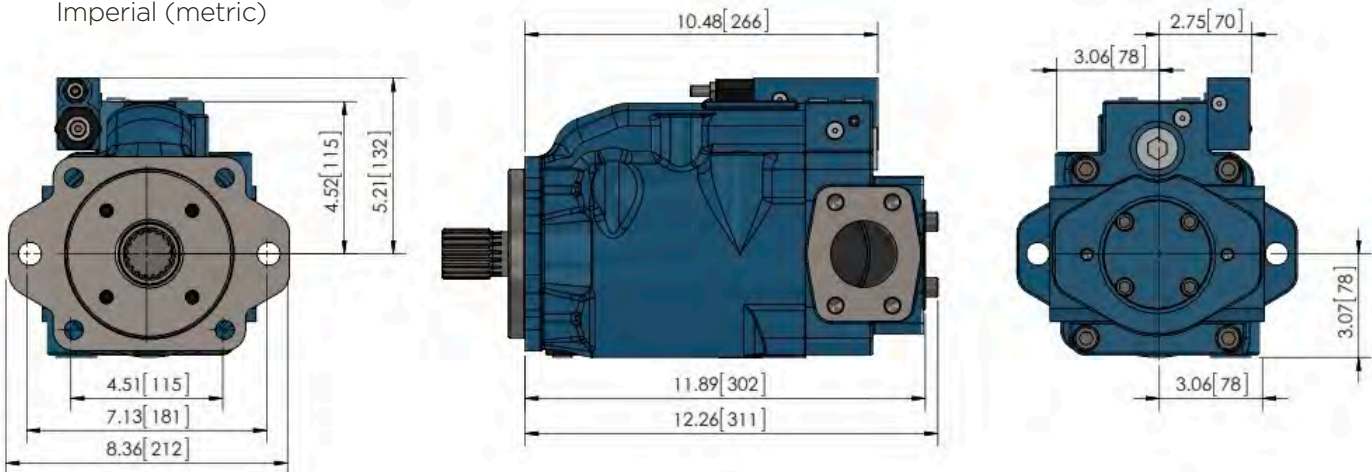
REAR PORTED DIMENSIONS

Imperial (metric)



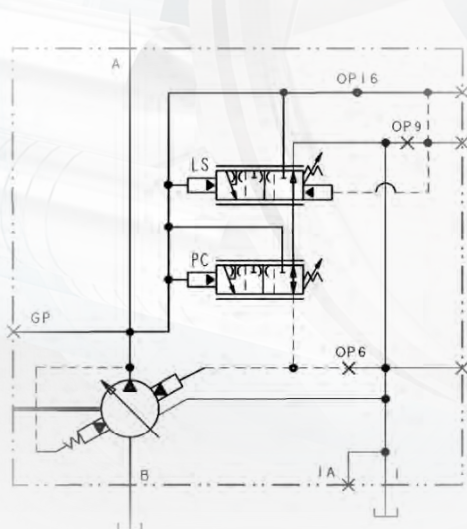
SIDE-PORTED DIMENSIONS

Imperial (metric)



CONTROL SCHEMATICS

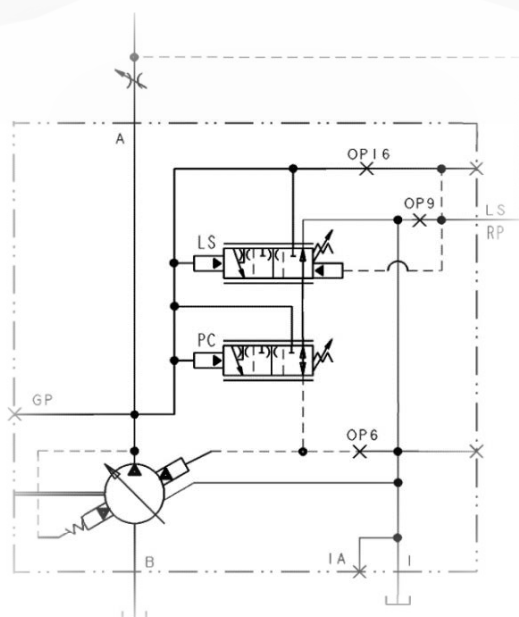
PRESSURE COMPENSATOR ONLY PRESSURE COMPENSATOR AND LOAD SENSE



PRESSURE COMPENSATOR ONLY, P-1NN

- OP 16 is OPEN
- OP 9 is PLUGGED
- OP 6 is PLUGGED
- The LS/RP Port is PLUGGED

All internal plugs and orifices use 1/16 NPT plugs and 5/32 internal hex wrenches.



PRESSURE COMPENSATOR AND LOAD SENSE, P-1NN/F OR P-1NN/B

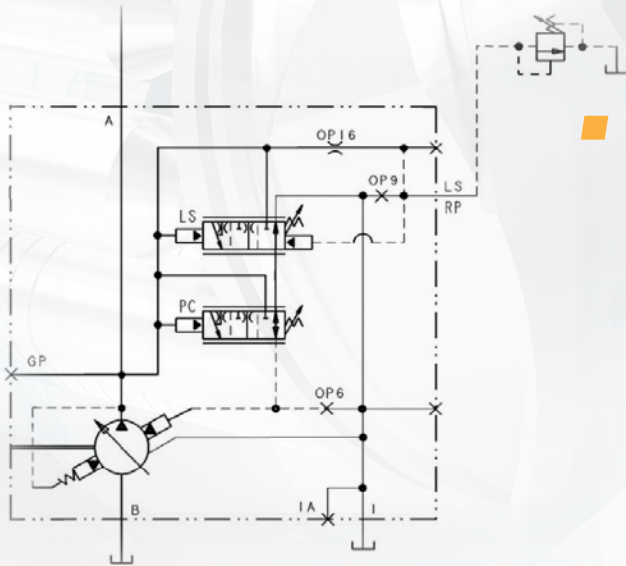
- OP 16 is PLUGGED
- OP 9 is PLUGGED in P-1NN/F, or uses optional orifice in P-1NN/B
- OP 6 is PLUGGED
- Customer-supplied LOAD SENSE

Circuit is plumbed into the LS/RP Port.

All internal plugs and orifices use 1/16 NPT plugs and 5/32 internal hex wrenches.

CONTROL SCHEMATICS

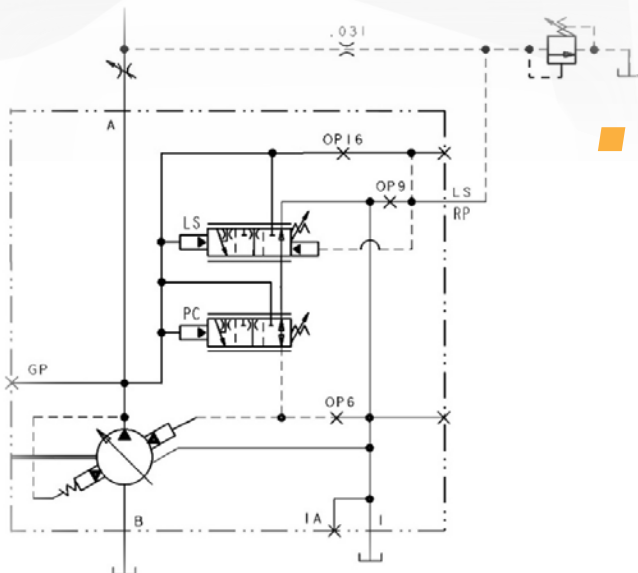
REMOTE PRESSURE COMPENSATOR REMOTE COMPENSATOR AND LOAD SENSE



REMOTE PRESSURE COMPENSATOR, P-RNN

- OP 16 has a \varnothing 0.031 in ORIFICE
- OP 9 is PLUGGED
- OP 6 is PLUGGED
- The customer-supplied Remote Compensator circuit is plumbed into the LS/RP Port.
- The Remote Compensator requires a flow rate of approximately 0.25 GPM.

All internal plugs and orifices use 1/16 NPT plugs and 5/32 internal hex wrenches.



REMOTE PRESSURE COMPENSATOR AND LOAD SENSE, P-1NN/F

- OP 16 is PLUGGED
- OP 9 is PLUGGED
- OP 6 is PLUGGED
- The customer-supplied Remote Compensator/Load Sense circuit is plumbed into the LS/RP Port, with the Load Sense Signal. The circuit requires a \varnothing 0.031 in. orifice between the Remote Compensator and Load Sense components.
- The Remote Compensator requires a flow rate of approximately 0.25 GPM.

All internal plugs and orifices use 1/16 NPT plugs and 5/32 internal hex wrenches.

KEY TAKEAWAYS

- ☐ XD5 meets max continuous flow requirements
- ☐ XD5 meets max continuous power requirements
- ☐ XD5 high RPM at Full Stroke meets requirements
- ☐ XD5 space claim will fit within available design package
- ☐ XD5 weight meets requirements
- ☐ XD5 will run application using _____ fluid

PROJECTS TO INSTALL XD5 ON

NOTES/NEXT STEPS

1		2		3	4	5		6	7	8	9		10		11A	11B	11C	11D	12		13		14
XD5	-	XXX	-	A1	X	X	-	X	X	X	X	-	X	-	X	X	X	XX	XX	-	XX	-	XX
XD5	-	100	-	A1	U	V	-	L	S	F	K	-	P	-	1	N	N	/F	SN	-	AN	-	10

1 Unit

XD5 = Pump Family

2 Unit Size

100 = 100 cc/rev (6.00 cpr)

3 Design Series

A1 = Design Series

4 Design Series Modifier

U = SAE Connections & Mounting

5 Shaft & O-Ring Seals

V = Viton

P = EPR

B = Buna Nitrile

6 Rotation

L = Left Hand (CCW)

R = Right Hand (CW)

7 Valve Plate Type

S = Rear Ported

D = Side Ported (thru-shaft)

8 Connection Type

F = SAE Flange

9 Shaft Type

K = 32-4 (SAE C Spline)

S = 38-4 (SAE C-C Spline)

10 Control Type

P = Pressure Compensating

11a Control Options

1 = Single Setting (standard)

R = Remote Control

11b Solenoid Voltage

N for non-electrical control

11c Connector

N for non-electrical control

11d Module

omit = None

/F = Load Sense without bleed

/B = Load Sense with bleed¹

12 Volume Stops

NN = No Volume Stop

SN = Adjustable Max. Vol. Stop

13 Auxiliary Adapter

Required for all thru-shaft units

Blank for all non thru-shaft units

NN = None

CP = Coverplate

A2 = 82-2 (SAE A 2-Bolt) Adapter
16-4 (SAE A) Coupling

B2 = 101-2 (SAE B 2-Bolt) Adapter
22-4 (SAE B) Coupling

C2 = 127-2 (SAE C 2-Bolt) Adapter
32-4 (SAE C) Coupling

C4 = 127-4 (SAE C 4-Bolt) Adapter
32-4 (SAE C) Coupling

14 Gear Pumps²

Blank unless required option

05 = 8 ml/rev (0.488 cpr)

07 = 11 ml/rev (0.672 cpr)

10 = 16 ml/rev (0.976 cpr)

14 = 23 ml/rev (1.403 cpr)

20 = 33 ml/rev (2.015 cpr)

¹ - Unavailable with Control Option "R"

² - Unavailable with Seal Type "P"

SHAFT TORQUE TABLE

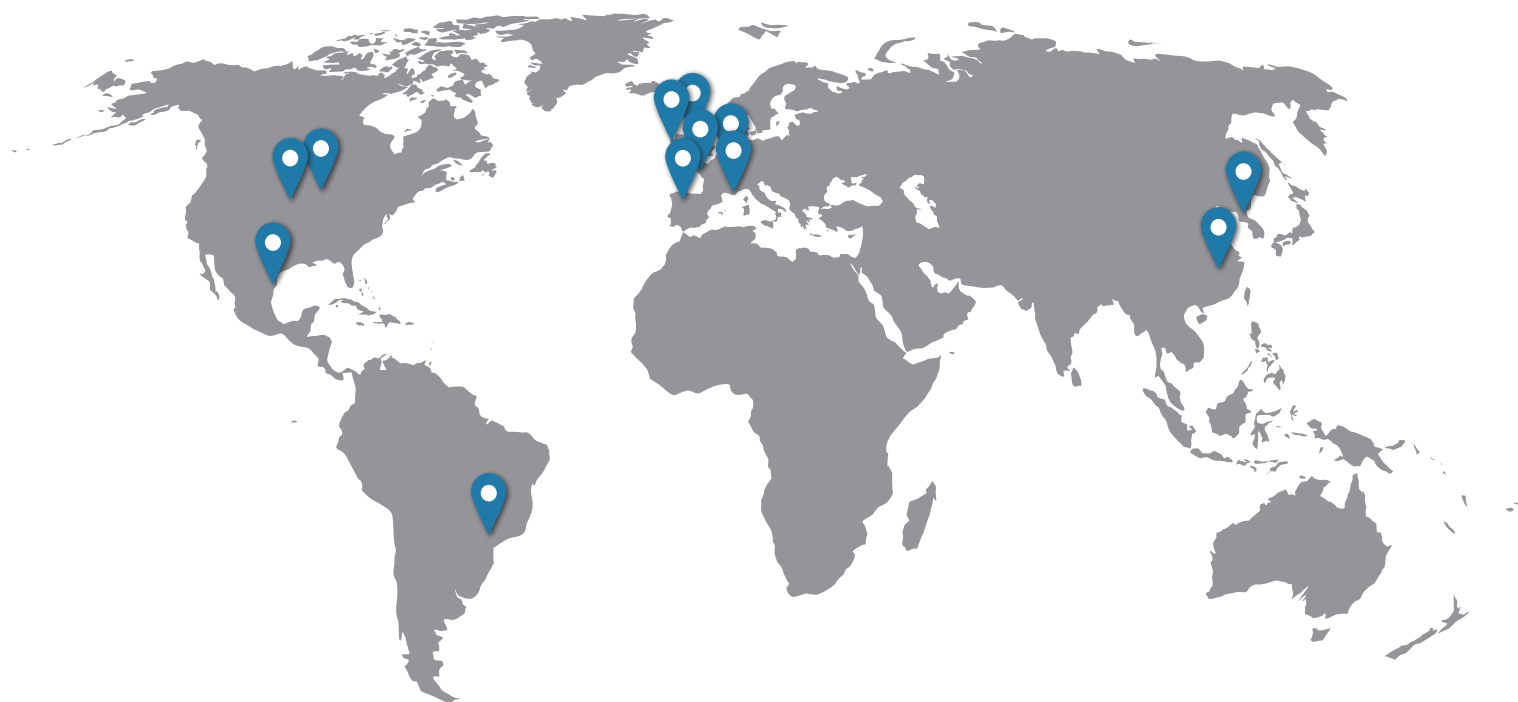
SHAFT DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE (IN-LB)
K	SAE C Spline - 14 tooth, 12/24 Pitch	7,000
S	SAE C-C Spline - 17 Tooth, 12/24 Pitch	10,500



100 YEARS

MAKING MACHINES GO. AND PROBLEMS GO AWAY.

Oilgear has a rich 100-year legacy in manufacturing pumps and hydraulic equipment. We pride ourselves on making machines go and problems go away®. For decades, Oilgear has developed hydraulic techniques to meet the unique needs for many equipment manufactures and end users worldwide.



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www.Oilgear.com

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