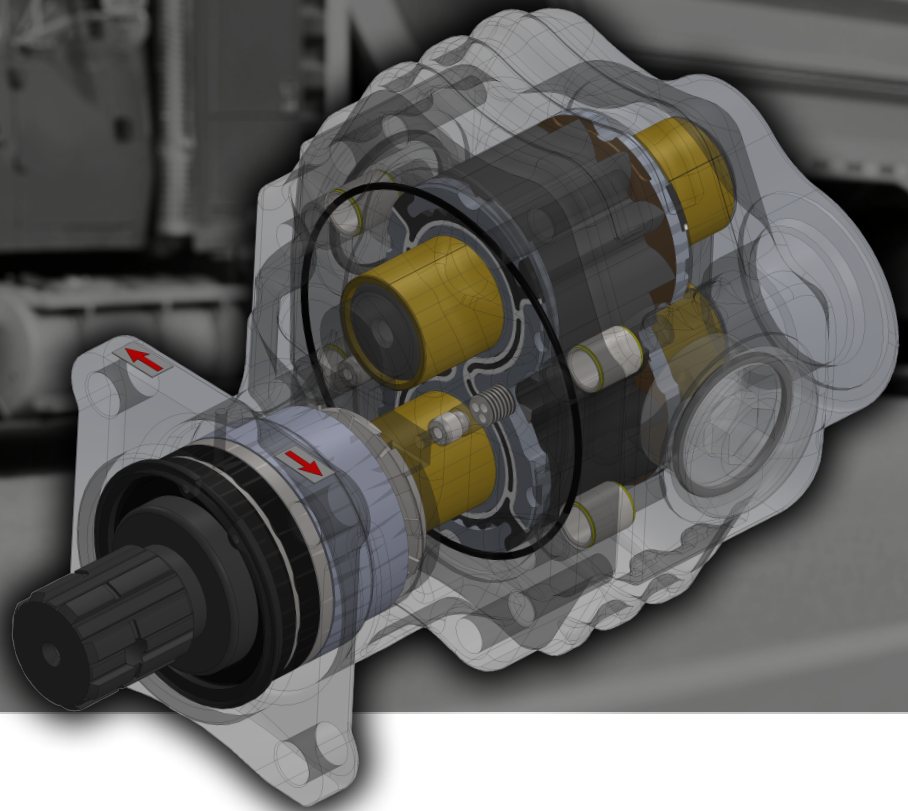




HIGH PRESSURE BUSHING PUMPS

2-Piece Structure



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Heavy Motions Inc., its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Heavy Motions Inc. and its subsidiaries at any time without notice.

Please note: All parts supplied are Heavy Motions®. The use of other manufacturers' names, part numbers, descriptions or trademarks is for cross reference and informational purposes only.

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ORDERING CODE

H 3 0 G P	0 7 3	H 4	D 8	R S	B	B	N
↓	↓	↓	↓	↓	↓	↓	↓
SERIES	DISPLACEMENT cc/rev.	FLANGE TYPE	SHAFT TYPE	PORT POSITION	PORT THREAD TYPE	ROTATION	SEAL TYPE
30GP	043	H4	D8	R	B	R	N
	051	B6	D6	S	N	L	
	061		S13				
	073	U3	S15	RS	O	B	
35GP	082	H4	D8	R	B	R	N
	090	B6	D6	S	N	L	
	100		S13				
	110	U3	S15	RS	O	B	

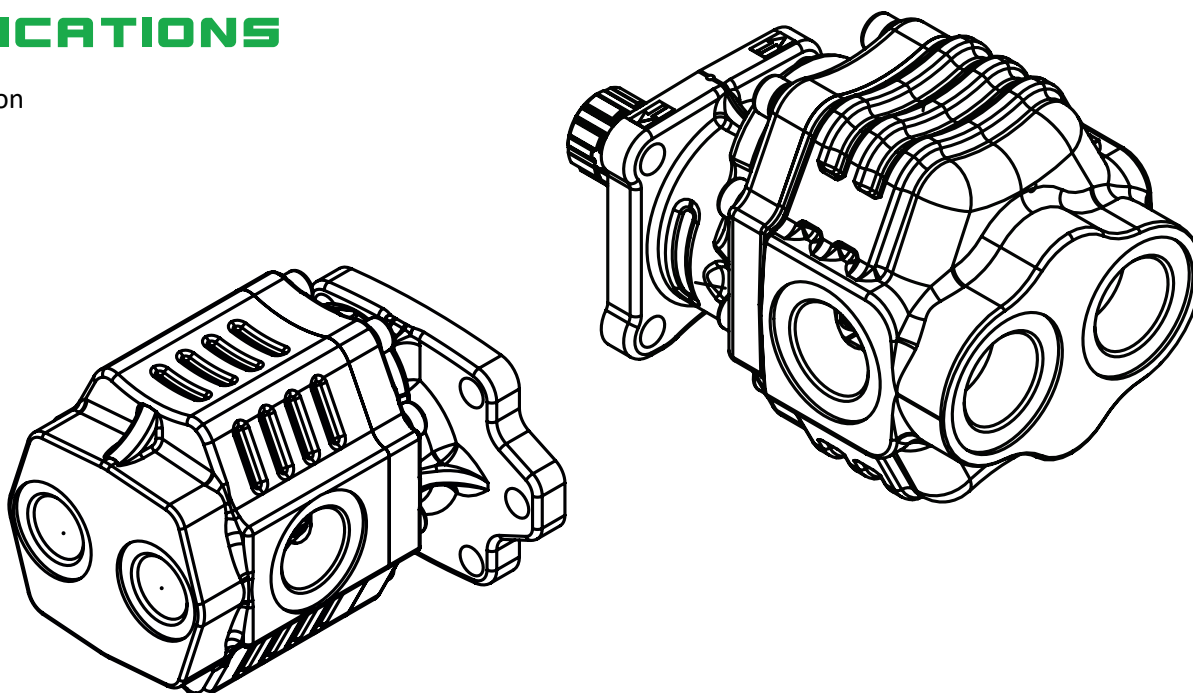
FLANGE TYPE	SHAFT TYPE	PORT POSITION	PORT THREAD TYPE	ROTATION	SEAL TYPE
H4 = ISO 4-bolt flange B6 = SAE multi 2+4 bolt flange U3 = UNI 3-bolt flange	D8 = DIN 5462 Spline D6 = DIN 5463 Spline S13 = SAE B 13T 7/8" Spline S15 = SAE B 15T 1" Spline	R = Rear S = Side RS = Rear & Side	B = BSPP N = NPTF O = ORB	R = Right Hand (CW) L = Left Hand (CCW) B = Bi-Rotational	N = NBR / Standard Seal

KEY FEATURES

- Cast iron displacement for high pressure capability and resistance to shock loads
- Medium-heavy duty hydraulics compatibility
- Bushing-type configuration, reducing friction & corrosion
- Lightweight & compact 2-piece construction
- 4 ports (side & rear) allowing flexible installation
- Available with all major port thread standards (BSPP, NPTF, & ORB)
- High efficiency & long service life

APPLICATIONS

- Construction
- Oil
- Gas



RECOMMENDED OIL OPERATING CONDITIONS:

Hydraulic oil type:

Use a high-quality mineral anti-wear hydraulic oil.

Recommended viscosity grades: **ISO VG 46** for summer operation and **ISO VG 32** for winter operation.

Hydraulic oil viscosity:

Acceptable viscosity range at operating temperature **20-100 cSt (mm²/s)**.

Recommended working viscosity for optimum efficiency and service life: **20-40 cSt (mm²/s)**.

Hydraulic oil temperature:

Recommended continuous operating oil temperature: **30-55 °C (86-131 °F)**.

Maximum short-term operating temperature: **80 °C (176 °F)**.

Minimum operating / start-up temperature: **20 °C (68 °F)**.

(Below this value, the hydraulic system oil should be pre-heated).

Hydraulic oil cleanliness:

The hydraulic oil must be maintained at a cleanliness level of **NAS 1638 class 10 or better** (or equivalent), using appropriate filtration.

Displacement Range: 43 - 73cc

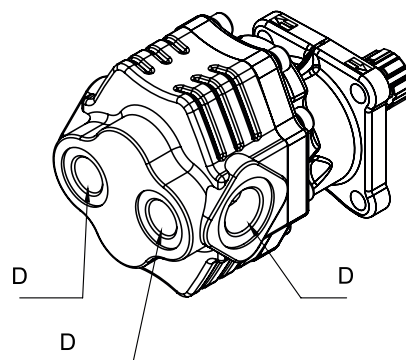
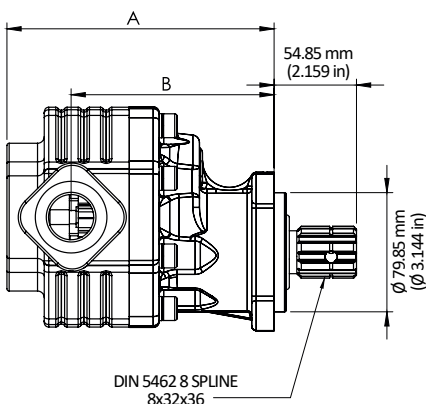
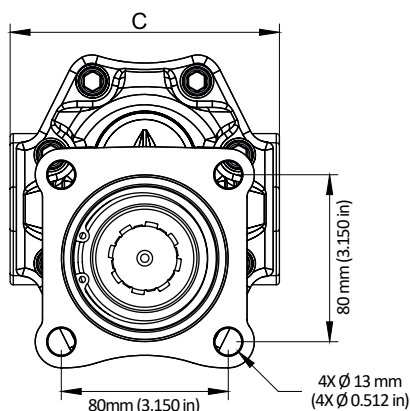
- » **ISO 7653 4-bolt flange / DIN 5462 shaft** for direct DIN PTO mounting & easy interchange with common DIN pumps
- » **Rear & side BSPP ports (G3/4"-G1")** for flexible plumbing on tippers, hook-lifts, walking floors, refuse bodies, and other mobile or stationary hydraulic applications



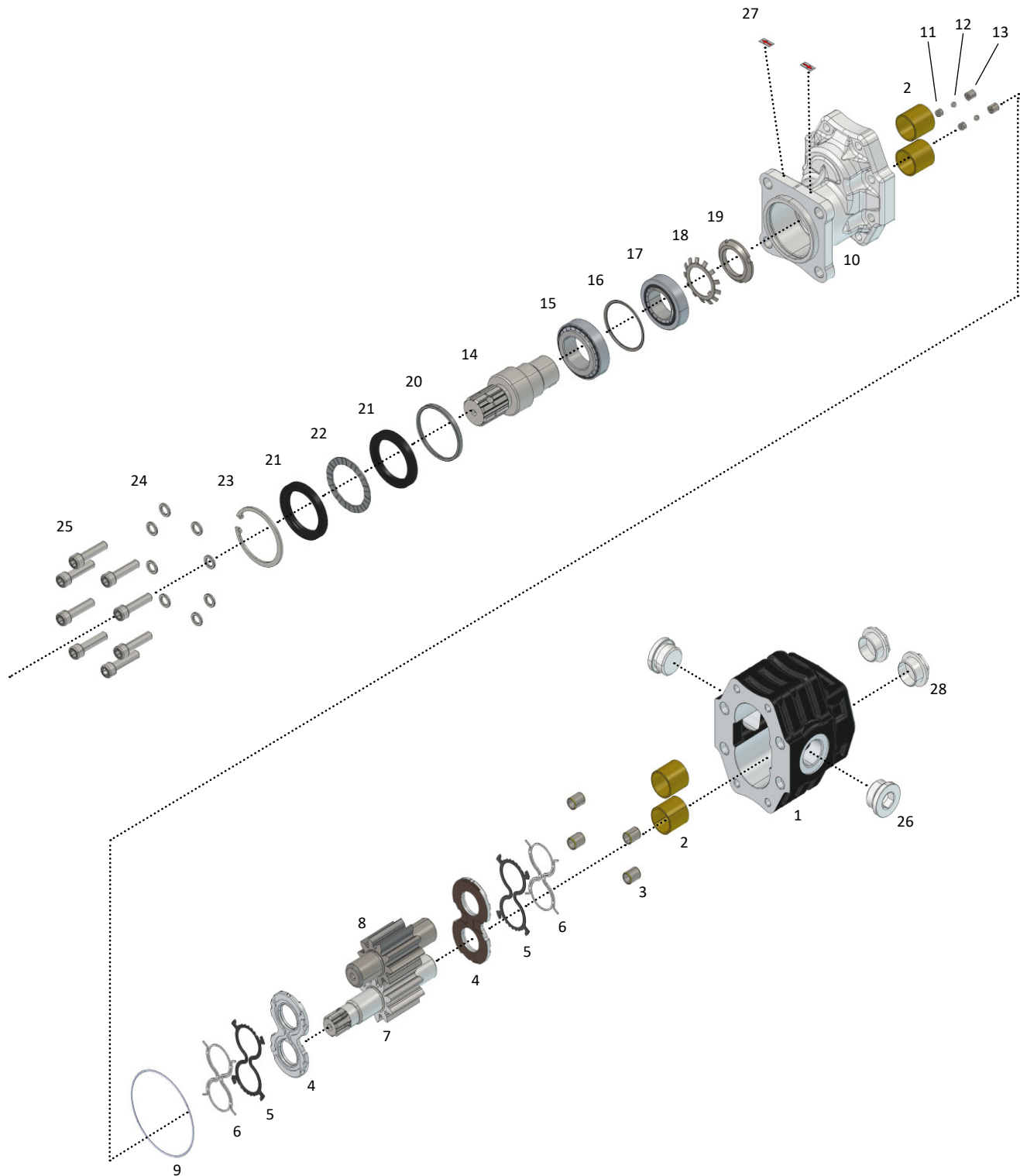
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043H4D8RSBBN (H30GP00002)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051H4D8RSBBN (H30GP00003)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061H4D8RSBBN (H30GP00004)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073H4D8RSBBN (H30GP00005)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D BSPP PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043H4D8RSBBN (H30GP00002)	179 (7.047)	136 (5.354)	129 (5.079)	G 3/4"	12.2 (26.9)
H30GP051H4D8RSBBN (H30GP00003)	184 (7.244)	138 (5.433)	128 (5.039)	G 1"	12.8 (28.2)
H30GP061H4D8RSBBN (H30GP00004)	190 (7.480)	139 (5.472)	129 (5.079)	G 1"	13.2 (29.1)
H30GP073H4D8RSBBN (H30GP00005)	199 (7.835)	134 (5.276)	125 (4.921)	G 1"	14.2 (31.3)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP0000# (HGPSP0000#)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
10	H30GP-SP00021 (HGPSP00021)	30GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGPSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGPSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGPSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGPSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGPSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGPSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGPSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGPSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGPSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGPSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
25	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H30GP-SP00023 (HGPSP00023)	30GP - HEX SOCKET PORT PLUG - G1" BSPP	2
27	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
28	H30GP-SP00024 (HGPSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00001 (HGPSP00001)	H30GP-SP00002 (HGPSP00002)	H30GP-SP00003 (HGPSP00003)	H30GP-SP00004 (HGPSP00004)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS
7	H30GP-SP00015 (HGPSP00015)	H30GP-SP00016 (HGPSP00016)	H30GP-SP00017 (HGPSP00017)	H30GP-SP00018 (HGPSP00018)
	30GP - 43cc (2.62in), DRIVE GEAR	30GP - 51cc (3.11in), DRIVE GEAR	30GP - 61cc (3.72in), DRIVE GEAR	30GP - 73cc (4.45in), DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

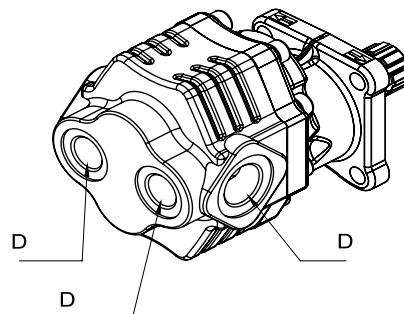
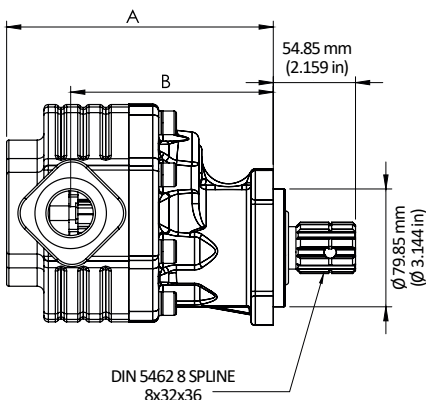
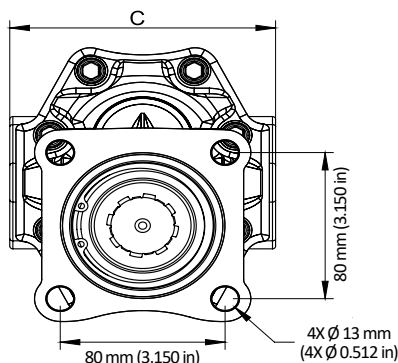
- » Ideal for trucks and mobile equipment built to North American piping standards
- » **ISO 7653 4-bolt flange / DIN 5462** shaft for direct DIN PTO mounting on European-style PTOs
- » **Rear & side NPTF ports (1"-1½")** for direct connection to North American tapered pipe threads on tipper, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications



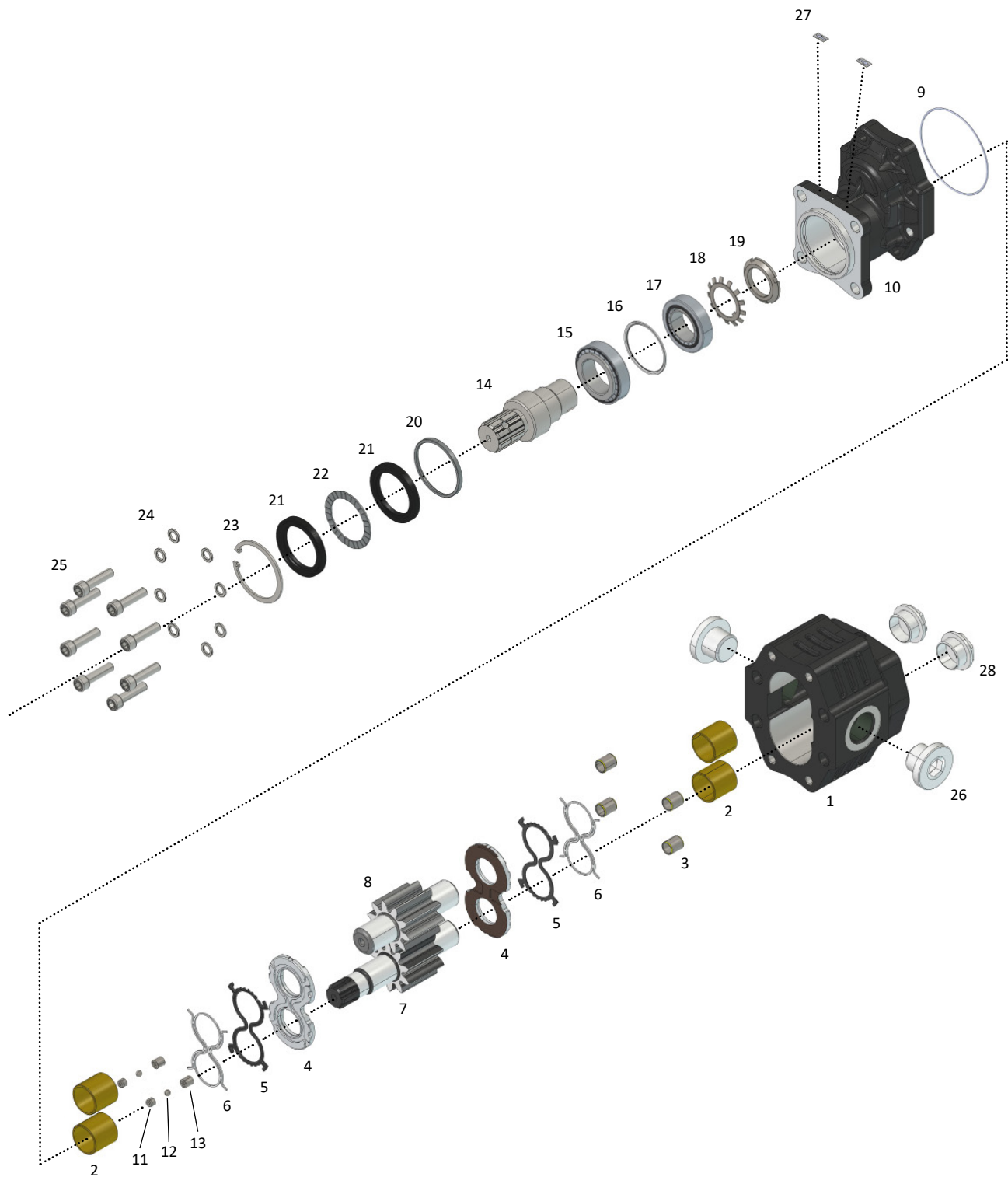
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043H4D8RSNBN (H30GP00008)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051H4D8RSNBN (H30GP00009)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061H4D8RSNBN (H30GP00010)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073H4D8RSNBN (H30GP00011)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D NPTF PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043H4D8RSNBN (H30GP00008)	179 (7.047)	136 (5.354)	129 (5.079)	1"	12.2 (26.5)
H30GP051H4D8RSNBN (H30GP00009)	184 (7.244)	138 (5.433)	128 (5.039)	1"	12.6 (27.8)
H30GP061H4D8RSNBN (H30GP00010)	190 (7.480)	139 (5.472)	129 (5.079)	1"	13 (28.7)
H30GP073H4D8RSNBN (H30GP00011)	199 (7.835)	134 (5.276)	125 (4.921)	1"	14 (30.9)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP0002# (HGSP0002#)	SEE TABLE B	1
2	H30GP-SP00006 (HGSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGSP000##)	SEE TABLE B	1
9	H30GP-SP00020 (HGSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
10	H30GP-SP00021 (HGSP00021)	30GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
25	H30GP-SP00022 (HGSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H30GP-SP00030 (HGSP00030)	30GP - HEX SOCKET PORT PLUG - 1" NPTF	2
27	HGP-SP00016 (HGSP00117)	PUMP ROTATION DIRECTION LABEL	2
28	H30GP-SP00024 (HGSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00025 (HGSP00025)	H30GP-SP00026 (HGSP00026)	H30GP-SP00027 (HGSP00027)	H30GP-SP00028 (HGSP00028)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, ISO, NPTF PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, ISO, NPTF PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, ISO, NPTF PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, ISO, NPTF PORTS
7	H30GP-SP00015 (HGSP00015)	H30GP-SP00016 (HGSP00016)	H30GP-SP00017 (HGSP00017)	H30GP-SP00018 (HGSP00018)
	30GP - 43cc (2.62in), DRIVE GEAR	30GP - 51cc (3.11in), DRIVE GEAR	30GP - 61cc (3.72in), DRIVE GEAR	30GP - 73cc (4.45in), DRIVE GEAR
8	H30GP-SP00010 (HGSP00010)	H30GP-SP00011 (HGSP00011)	H30GP-SP00012 (HGSP00012)	H30GP-SP00013 (HGSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

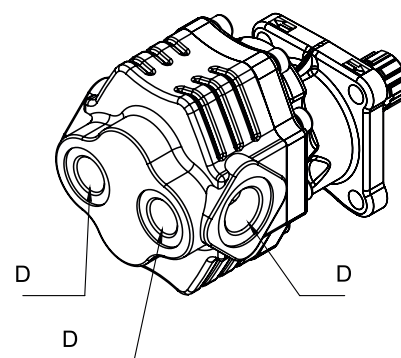
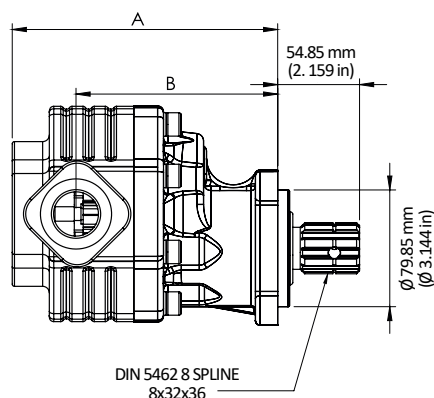
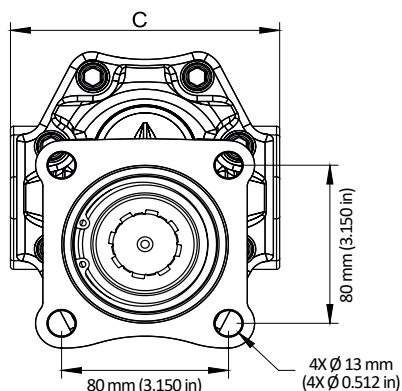
- » Designed for trucks and mobile equipment using SAE O-ring boss connections
- » **ISO 7653 4-bolt flange / DIN 5462 shaft** for direct DIN PTO mounting and easy interchange with DIN pumps
- » **Rear & side SAE ORB ports (ORB-12 / ORB-16 / ORB-20)** for leak-resistant high-pressure connections on tippers, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications
- » Easy integration with North American hose and fitting systems



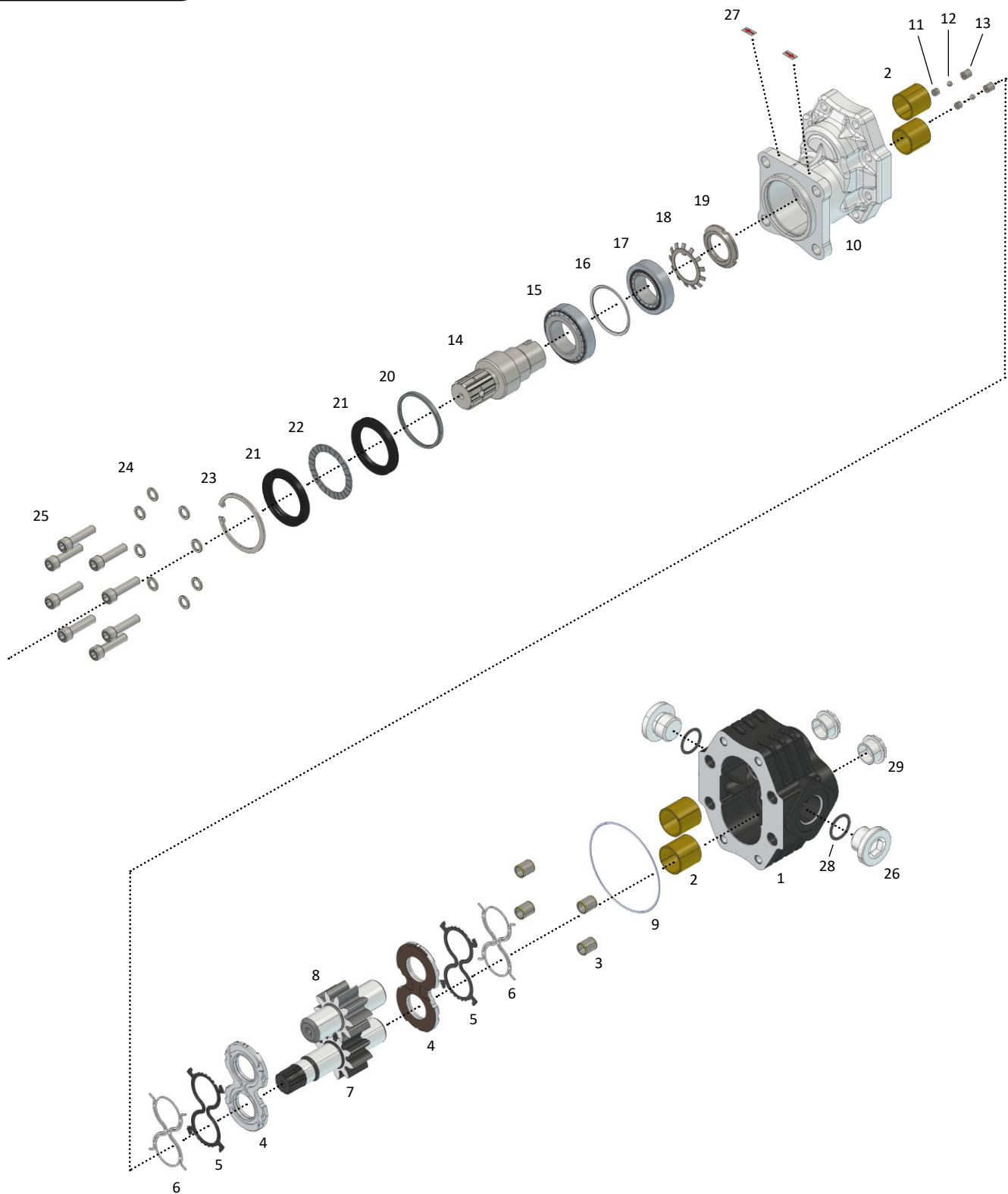
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043H4D8RSOBN (H30GP00014)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051H4D8RSOBN (H30GP00015)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061H4D8RSOBN (H30GP00016)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073H4D8RSOBN (H30GP00017)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D ORB PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043H4D8RSOBN (H30GP00014)	179 (7.047)	136 (5.354)	129 (5.079)	1" 1/16-12UN	12.2 (26.9)
H30GP051H4D8RSOBN (H30GP00015)	184 (7.244)	138 (5.433)	128 (5.039)	1" 5/16-12UN	12.8 (28.2)
H30GP061H4D8RSOBN (H30GP00016)	190 (7.480)	139 (5.472)	129 (5.079)	1" 5/16-12UN	13.2 (29.1)
H30GP073H4D8RSOBN (H30GP00017)	199 (7.835)	134 (5.276)	125 (4.921)	1" 5/16-12UN	14.2 (31.3)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP0003# (HGPSP0003#)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
10	H30GP-SP00021 (HGPSP00021)	30GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGPSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGPSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGPSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGPSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGPSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGPSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGPSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGPSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGPSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGPSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	
25	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H30GP-SP00036 (HGPSP00036)	30GP - HEX SOCKET PORT PLUG - 1-1/16"-12 UN ORB	2
27	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
28	H30GP-SP00037 (HGPSP00037)	30GP - NBR PORT PLUG O-RING	2
29	H30GP-SP00038 (HGPSP00038)	30GP - PLASTIC THREADED PORT PROTECTION PLUG - DIN/ORB	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00031 (HGPSP00031)	H30GP-SP00032 (HGPSP00032)	H30GP-SP00033 (HGPSP00033)	H30GP-SP00034 (HGPSP00034)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, ISO, ORB PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, ISO, ORB PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, ISO, ORB PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, ISO, ORB PORTS
7	H30GP-SP00015 (HGPSP00015)	H30GP-SP00016 (HGPSP00016)	H30GP-SP00017 (HGPSP00017)	H30GP-SP00018 (HGPSP00018)
	30GP - 43cc (2.62in), DRIVE GEAR	30GP - 51cc (3.11in), DRIVE GEAR	30GP - 61cc (3.72in), DRIVE GEAR	30GP - 73cc (4.45in), DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

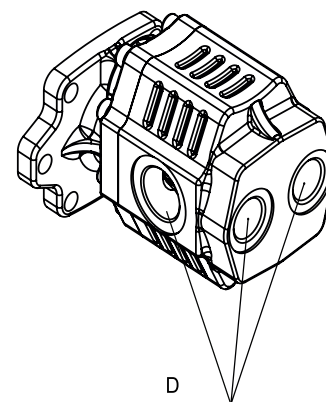
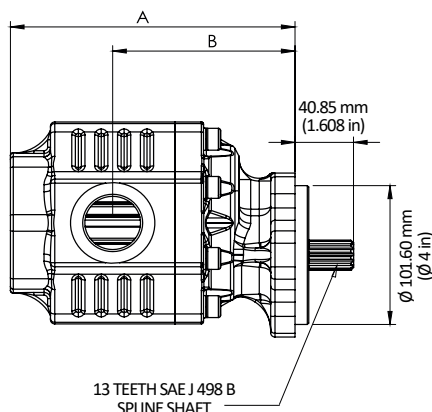
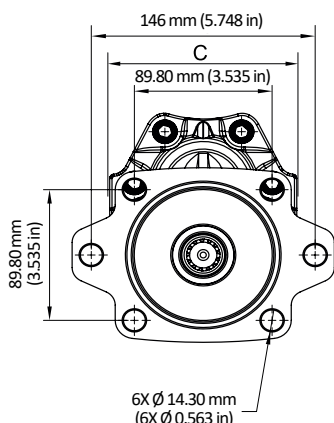
- » Designed for trucks and mobile equipment using SAE B PTO drives and North American tapered pipe threads
- » **SAE B6 2-bolt flange / SAE B 7/8-13T spline shaft** for direct mounting to SAE B PTOs and pumps
- » **Rear & side NPTF ports (1"-1¼")** for simple piping on tippers, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043B6S13RSNBN (H30GP00020)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051B6S13RSNBN (H30GP00021)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061B6S13RSNBN (H30GP00022)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073B6S13RSNBN (H30GP00023)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D NPTF PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043B6S13RSNBN (H30GP00020)	166 (6.535)	123 (4.843)	129 (5.079)	1"	11.4 (25.1)
H30GP051B6S13RSNBN (H30GP00021)	171 (6.732)	125 (4.921)	128 (5.039)	1"	12 (26.5)
H30GP061B6S13RSNBN (H30GP00022)	177 (6.969)	126 (4.961)	129 (5.079)	1"	12.4 (27.3)
H30GP073B6S13RSNBN (H30GP00023)	186 (7.323)	121 (4.764)	125 (4.921)	1"	13.4 (29.5)



WARNING: This product can expose you to chemicals including lead or DEHP which are known to the state of California to cause cancer, birth defects, and other reproductive harm.
www.p65warnings.ca.gov

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor housing. The parts are numbered 1 through 22. The main housing (11) is shown in the center. To its left, a shaft assembly (7, 8) is shown with a gear (8) and a shaft (7). To the right, a cover (2) is shown with various mounting hardware (12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22). The diagram shows the relative positions of the parts, including the housing (11), the cover (2), the shaft assembly (7, 8), and various internal components like gears (4, 5, 6), seals (10), and fasteners (12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22).

Parts Break Down
TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00049 (HGPSP00049)	30GP - M10 x 1.5 x 10 SET SCREW	1
10	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
11	H30GP-SP00050 (HGPSP00050)	30GP - SAE-B6 FRONT COVER	1
12	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
13	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
14	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
15	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
16	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
17	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
18	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
19	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
20	H30GP-SP00030 (HGPSP00030)	30GP - HEX SOCKET PORT PLUG - 1" NPTF	2
21	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
22	H30GP-SP00024 (HGPSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00039 (HGPSP00039)	H30GP-SP00040 (HGPSP00040)	H30GP-SP00041 (HGPSP00041)	H30GP-SP00042 (HGPSP00042)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS
7	H30GP-SP00044 (HGPSP00044)	H30GP-SP00045 (HGPSP00045)	H30GP-SP00046 (HGPSP00046)	H30GP-SP00047 (HGPSP00047)
	30GP - 43cc (2.62in), SAE B 13T DRIVE GEAR	30GP - 51cc (3.11in), SAE B 13T DRIVE GEAR	30GP - 61cc (3.72in), SAE B 13T DRIVE GEAR	30GP - 73cc (4.45in), SAE B 13T DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

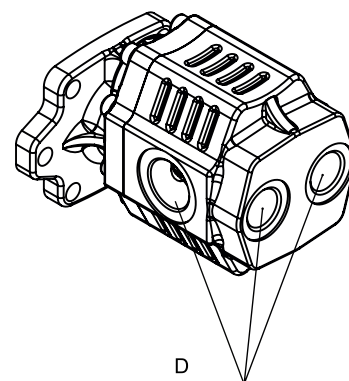
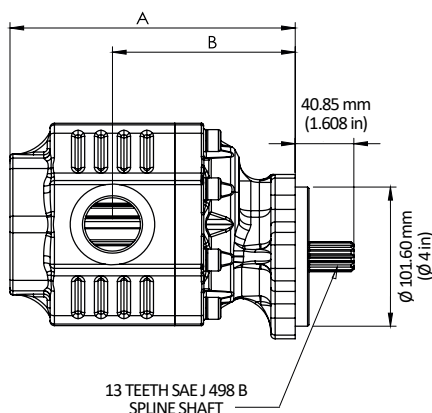
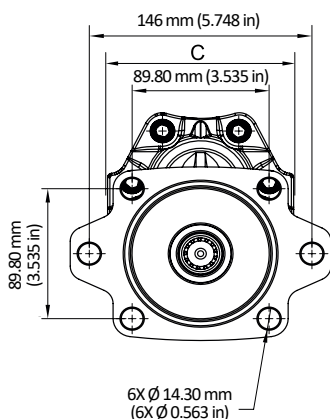
- » For PTO-driven truck hydraulics where SAE B mounting and leak-free O-ring connections are required
- » **SAE B6 2-bolt flange / SAE B 7/8-13T spline shaft** for direct mounting to SAE B PTOs
- » **Rear & side ORB ports (ORB-12 / ORB-16 / ORB-20)** for leak-resistant connections on tippers, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications



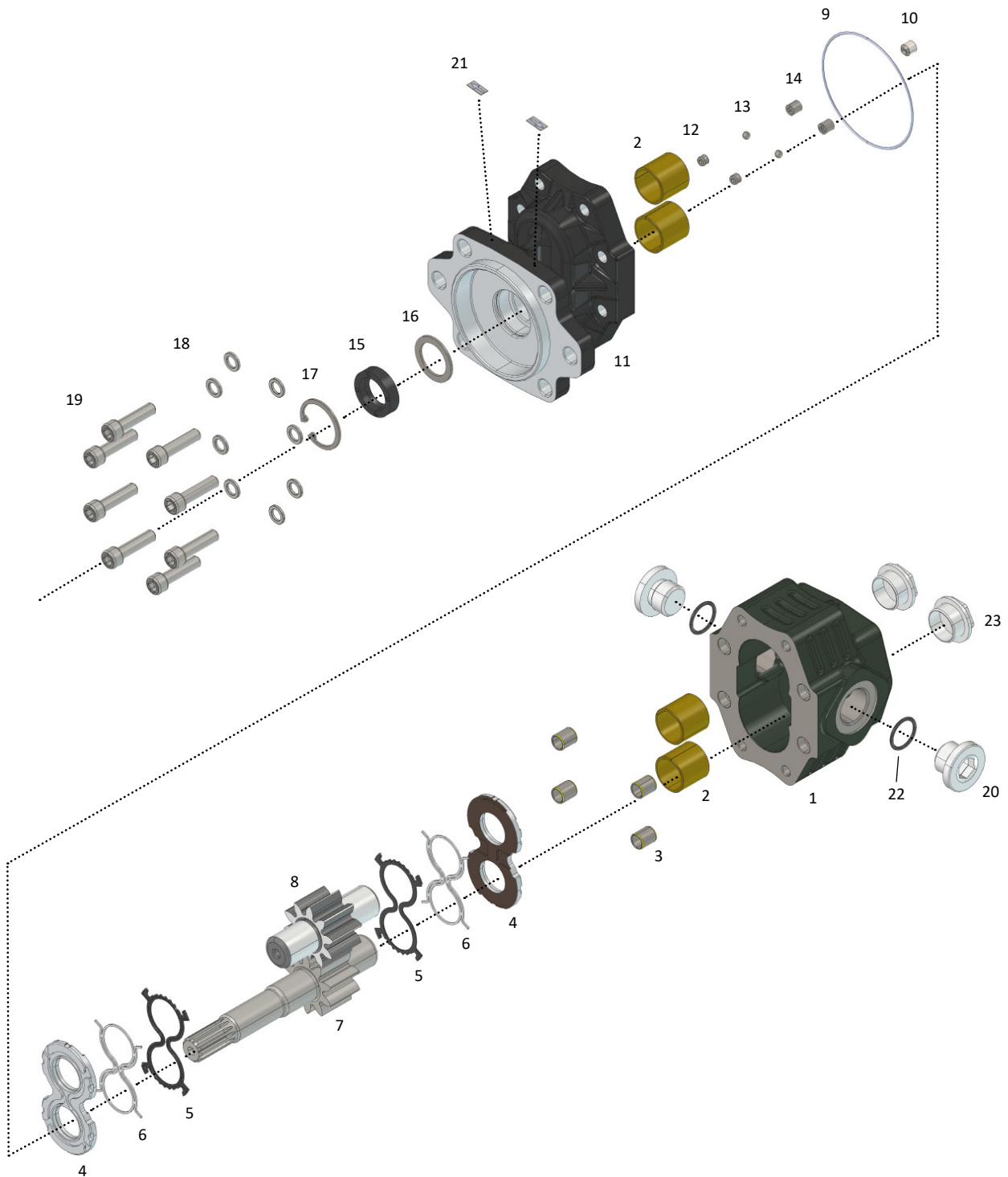
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043B6S13RSOBN (H30GP00026)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051B6S13RSOBN (H30GP00027)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061B6S13RSOBN (H30GP00028)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073B6S13RSOBN (H30GP00029)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ±0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D ORB PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043B6S13RSOBN (H30GP00026)	166 (6.535)	123 (4.843)	129 (5.079)	1-1/16"-12UN	11.6 (25.6)
H30GP051B6S13RSOBN (H30GP00027)	171 (6.732)	125 (4.921)	128 (5.039)	1-1/16"-12UN	12.2 (26.9)
H30GP061B6S13RSOBN (H30GP00028)	177 (6.969)	126 (4.961)	129 (5.079)	1-1/16"-12UN	12.6 (27.8)
H30GP073B6S13RSOBN (H30GP00029)	186 (7.323)	121 (4.764)	125 (4.921)	1-1/16"-12UN	13.6 (30)



Exploded View



Parts Break Down
TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
10	H30GP-SP00049 (HGPSP00049)	30GP - M10 x 1.5 x 10 SET SCREW	1
11	H30GP-SP00050 (HGPSP00050)	30GP - SAE-B6 FRONT COVER	1
12	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
13	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
14	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
15	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
16	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
17	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
18	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
19	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
20	H30GP-SP00036 (HGPSP00036)	30GP - HEX SOCKET PORT PLUG - 1-1/16"-12 UN ORB	2
21	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
22	H30GP-SP00037 (HGPSP00037)	30GP - NBR PORT PLUG O-RING	2
23	H30GP-SP00024 (HGPSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00051 (HGPSP00051)	H30GP-SP00052 (HGPSP00052)	H30GP-SP00053 (HGPSP00053)	H30GP-SP00054 (HGPSP00054)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS
7	H30GP-SP00044 (HGPSP00044)	H30GP-SP00045 (HGPSP00045)	H30GP-SP00046 (HGPSP00046)	H30GP-SP00047 (HGPSP00047)
	30GP - 43cc (2.62in), SAE B 13T DRIVE GEAR	30GP - 51cc (3.11in), SAE B 13T DRIVE GEAR	30GP - 61cc (3.72in), SAE B 13T DRIVE GEAR	30GP - 73cc (4.45in), SAE B 13T DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

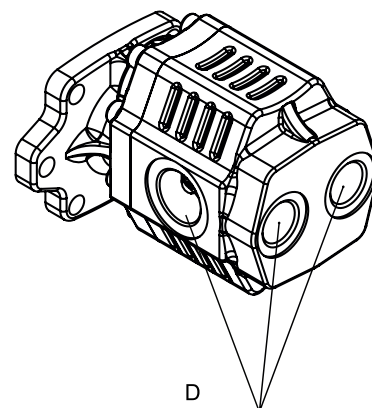
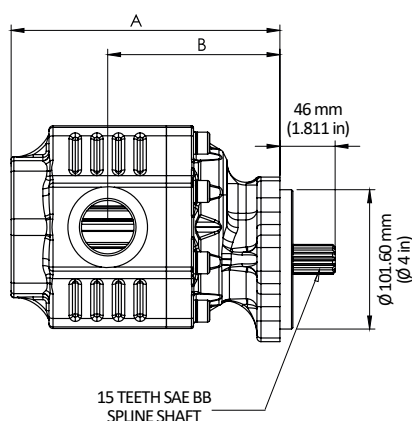
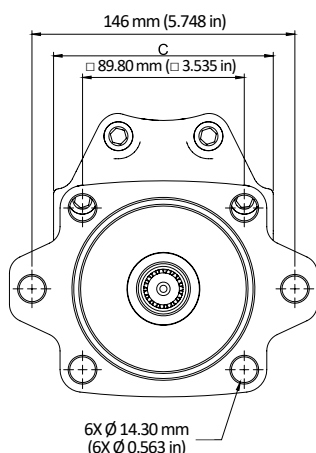
- » For applications requiring an SAE BB drive and North American NPTF pipe threads
- » **SAE B6 2-bolt flange / SAE BB 1"-15T spline shaft** for direct mounting to SAE BB PTOs and clutches
- » **Rear & side NPTF ports (1"-1¼")** for straightforward piping on tippers, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043B6S15RSNBN (H30GP00032)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051B6S15RSNBN (H30GP00033)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061B6S15RSNBN (H30GP00034)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073B6S15RSNBN (H30GP00035)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D NPTF PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043B6S15RSNBN (H30GP00032)	166 (6.535)	123 (4.843)	129 (5.079)	1"	11.4 (25.1)
H30GP051B6S15RSNBN (H30GP00033)	171 (6.732)	125 (4.921)	128 (5.039)	1"	12 (26.5)
H30GP061B6S15RSNBN (H30GP00034)	177 (6.969)	126 (4.961)	129 (5.079)	1"	12.4 (27.3)
H30GP073B6S15RSNBN (H30GP00035)	186 (7.323)	121 (4.764)	125 (4.921)	1"	13.4 (29.5)



This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The components are numbered 1 through 22. The main housing (1) is a black, cast metal part with a central opening. It is surrounded by various seals and gaskets (2, 3, 4, 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22). A central shaft (7) with a gear (8) is shown at the bottom left. The diagram uses dashed lines to show the relative positions and assembly sequence of the parts.

Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00049 (HGPSP00049)	30GP - M10 x 1.5 x 10 SET SCREW	1
10	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
11	H30GP-SP00050 (HGPSP00050)	30GP - SAE-B6 FRONT COVER	1
12	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
13	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
14	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
15	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
16	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
17	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
18	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
19	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
20	H30GP-SP00030 (HGPSP00030)	30GP - HEX SOCKET PORT PLUG - 1" NPTF	2
21	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
22	H30GP-SP00024 (HGPSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 061cc (3.72in)	DISPLACEMENT: 073cc (4.45in)
1	H30GP-SP00039 (HGPSP00039)	H30GP-SP00040 (HGPSP00040)	H30GP-SP00041 (HGPSP00041)	H30GP-SP00042 (HGPSP00042)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 061cc (3.72in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS	30GP - 073cc (4.45in), BI-DIRECTIONAL PUMP BODY, SAE, NPTF PORTS
7	H30GP-SP00056 (HGPSP00056)	H30GP-SP00057 (HGPSP00057)	H30GP-SP00058 (HGPSP00058)	H30GP-SP00059 (HGPSP00059)
	30GP - 43cc (2.62in), SAE BB 15T DRIVE GEAR	30GP - 51cc (3.11in), SAE BB 15T DRIVE GEAR	30GP - 061cc (3.72in), SAE BB 15T DRIVE GEAR	30GP - 073cc (4.45in), SAE BB 15T DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 061cc (3.72in), IDLER GEAR	30GP - 073cc (4.45in), IDLER GEAR

Displacement Range: 43 - 73cc

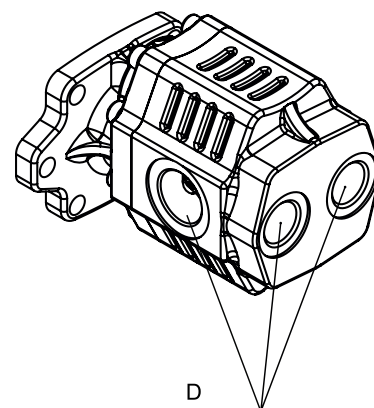
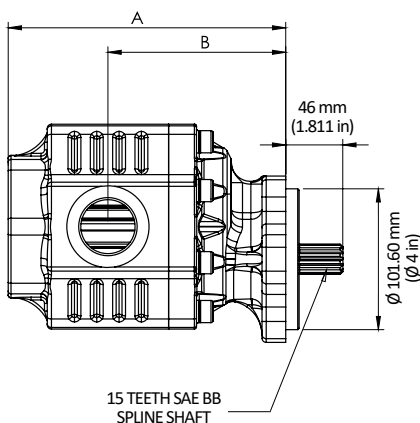
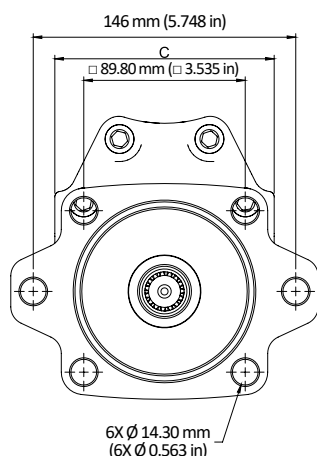
- » Designed for SAE BB-driven truck hydraulics using SAE O-ring boss connections
- » **SAE B6 2-bolt flange / SAE BB 1"-15T spline shaft** for direct mounting to SAE BB PTOs and clutches
- » **Rear & side ORB ports (ORB-12 / ORB-16 / ORB-20)** for leak-tight hose connections on tipplers, hook-lifts, walking floors, refuse trucks, and other mobile or stationary hydraulic applications



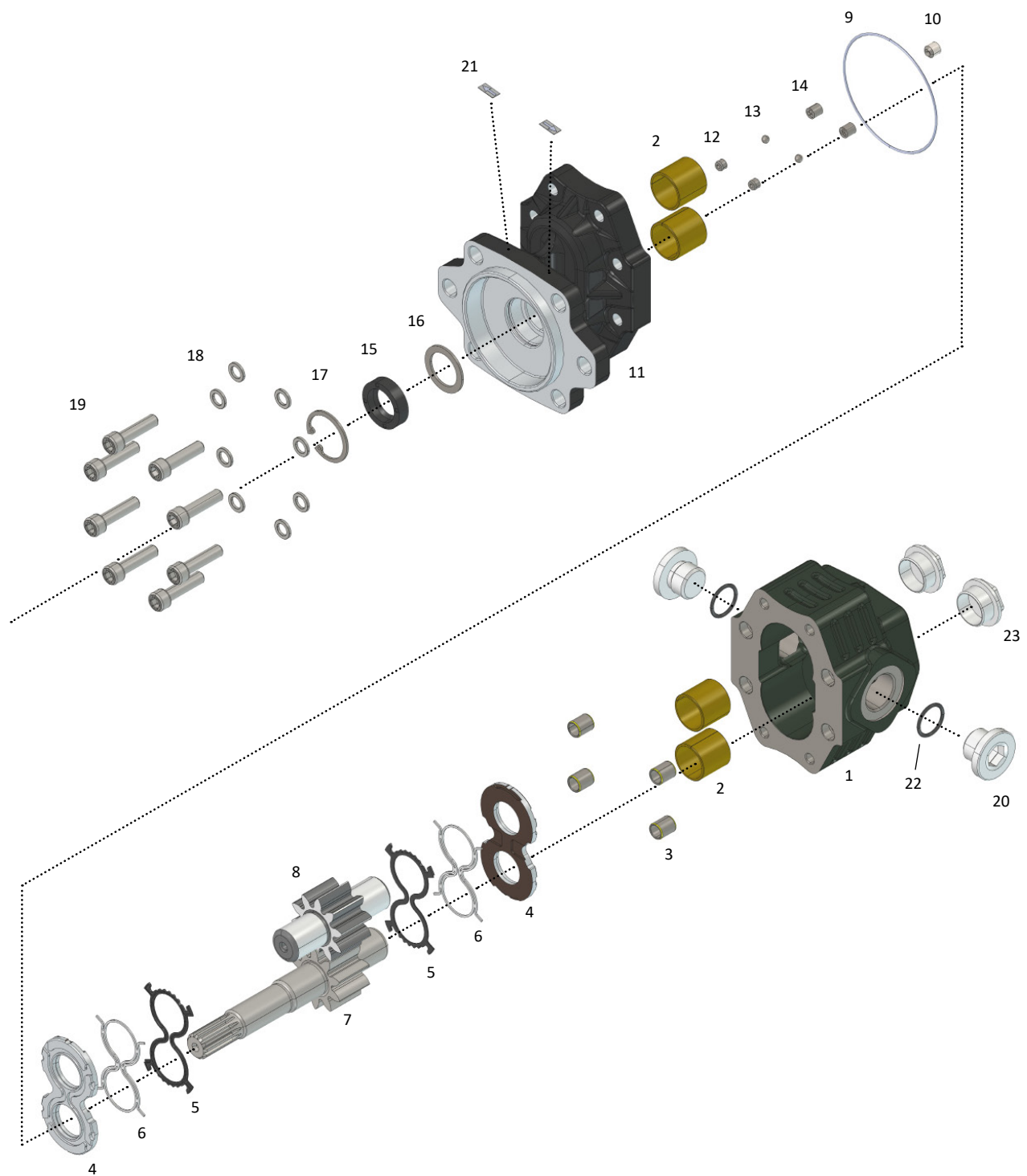
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H30GP043B6S15RSOBN (H30GP00038)	43cc (2.62in)	270 (3916)	290 (4206)	300	2000	2500
H30GP051B6S15RSOBN (H30GP00039)	51cc (3.11in)	240 (3481)	260 (3771)	300	2000	2500
H30GP061B6S15RSOBN (H30GP00040)	61cc (3.72in)	220 (3191)	240 (3481)	300	1900	2500
H30GP073B6S15RSOBN (H30GP00041)	73cc (4.45in)	220 (3191)	240 (3481)	300	1900	2500

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C mm ± 0.5 (inches ± 0.02)	D ORB PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H30GP043B6S15RSOBN (H30GP00038)	166 (6.535)	123 (4.843)	129 (5.079)	1-1/16"-12UN	11.6 (25.6)
H30GP051B6S15RSOBN (H30GP00039)	171 (6.732)	125 (4.921)	128 (5.039)	1-5/16"-12UN	12.2 (26.9)
H30GP061B6S15RSOBN (H30GP00040)	177 (6.969)	126 (4.961)	129 (5.079)	1-5/16"-12UN	12.6 (27.8)
H30GP073B6S15RSOBN (H30GP00041)	186 (7.323)	121 (4.764)	125 (4.921)	1-5/16"-12UN	13.6 (30)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
2	H30GP-SP00006 (HGPSP00006)	PTFE-LINED BUSHING, 28 x 32 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H30GP-SP00007 (HGPSP00007)	30GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H30GP-SP00008 (HGPSP00008)	30GP - BI-DIRECTIONAL M-RING SEAL	2
6	H30GP-SP00009 (HGPSP00009)	30GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H30GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H30GP-SP00020 (HGPSP00020)	30GP - NBR BODY O-RING, 98 x 2 mm	1
10	H30GP-SP00049 (HGPSP00049)	30GP - M10 x 1.5 x 10 SET SCREW	1
11	H30GP-SP00050 (HGPSP00050)	30GP - SAE-B6 FRONT COVER	1
12	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
13	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
14	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
15	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
16	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
17	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
18	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
19	H30GP-SP00022 (HGPSP00022)	30GP - M10 x 1.5 x 40 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
20	H30GP-SP00036 (HGPSP00036)	30GP - HEX SOCKET PORT PLUG - 1-1/16"-12 UN ORB	2
21	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
22	H30GP-SP00037 (HGPSP00037)	30GP - NBR PORT PLUG O-RING	2
23	H30GP-SP00024 (HGPSP00024)	30GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 43cc (2.62in)	DISPLACEMENT: 51cc (3.11in)	DISPLACEMENT: 61cc (3.72in)	DISPLACEMENT: 73cc (4.45in)
1	H30GP-SP00051 (HGPSP00051)	H30GP-SP00052 (HGPSP00052)	H30GP-SP00053 (HGPSP00053)	H30GP-SP00054 (HGPSP00054)
	30GP - 43cc (2.62in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 51cc (3.11in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 61cc (3.72in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS	30GP - 73cc (4.45in), BI-DIRECTIONAL PUMP BODY, SAE, ORB PORTS
7	H30GP-SP00056 (HGPSP00056)	H30GP-SP00057 (HGPSP00057)	H30GP-SP00058 (HGPSP00058)	H30GP-SP00059 (HGPSP00059)
	30GP - 43cc (2.62in), SAE BB 15T DRIVE GEAR	30GP - 51cc (3.11in), SAE BB 15T DRIVE GEAR	30GP - 61cc (3.72in), SAE BB 15T DRIVE GEAR	30GP - 73cc (4.45in), SAE BB 15T DRIVE GEAR
8	H30GP-SP00010 (HGPSP00010)	H30GP-SP00011 (HGPSP00011)	H30GP-SP00012 (HGPSP00012)	H30GP-SP00013 (HGPSP00013)
	30GP - 43cc (2.62in), IDLER GEAR	30GP - 51cc (3.11in), IDLER GEAR	30GP - 61cc (3.72in), IDLER GEAR	30GP - 73cc (4.45in), IDLER GEAR

Displacement Range: 82 - 110cc

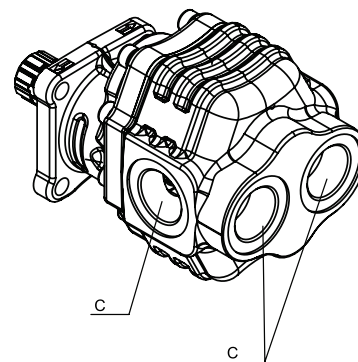
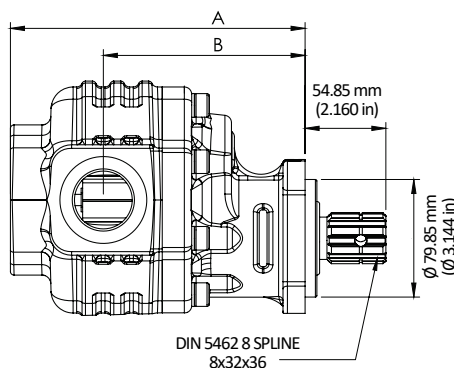
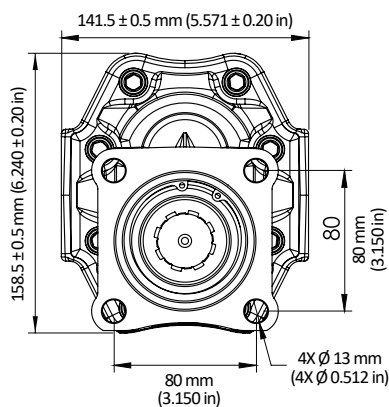
- » **ISO 7653 4-bolt flange / DIN 5462 shaft** for direct PTO mounting to European DIN PTOs
- » **Rear & side BSPP ports (G1¼")** for straightforward hose connections on dump and tipper trucks, recovery vehicles, industrial powerpacks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082H4D8RSBBN (H35GP00022)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090H4D8RSBBN (H35GP00001)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100H4D8RSBBN (H35GP00002)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110H4D8RSBBN (H35GP00003)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

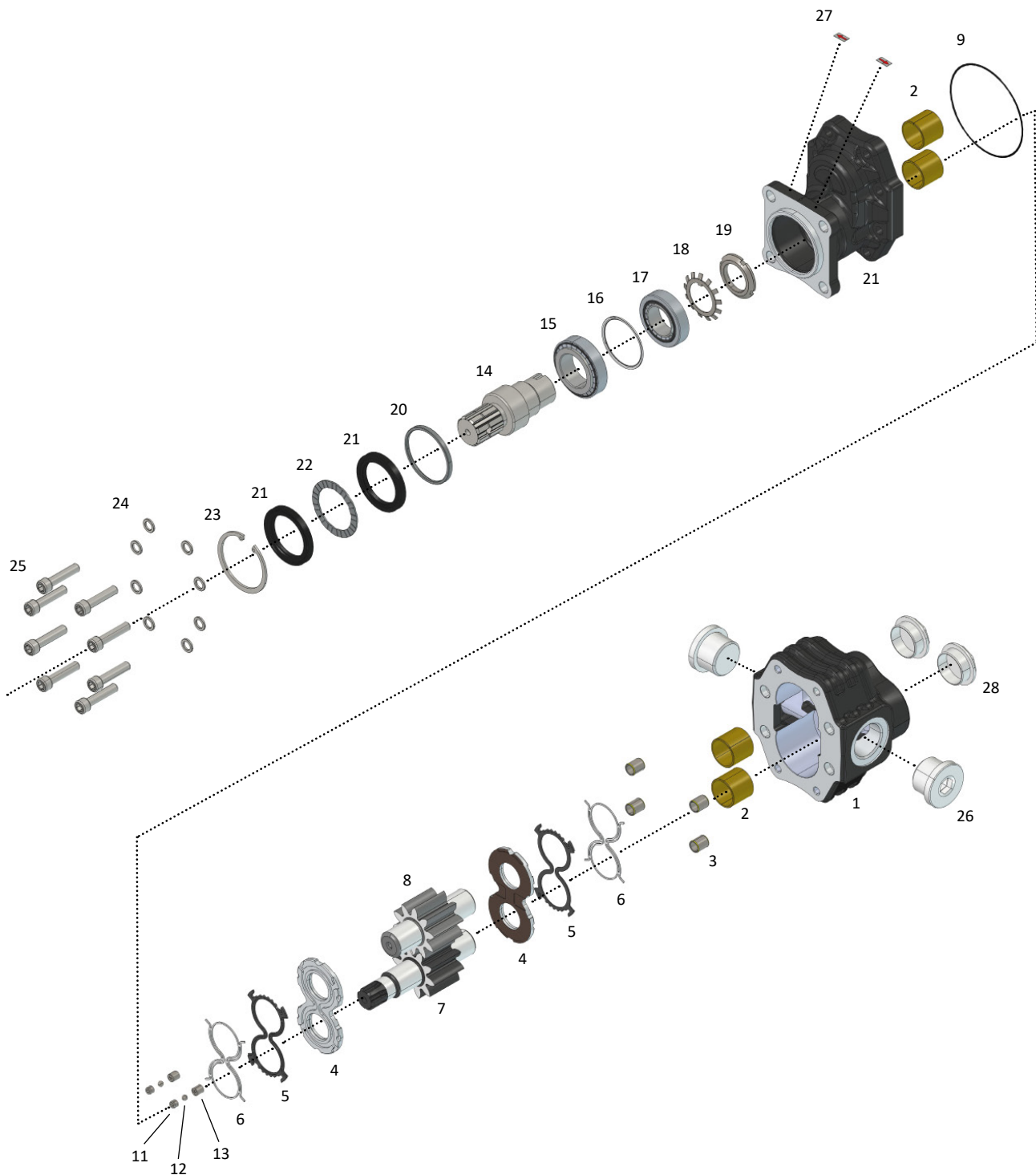
DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082H4D8RSBBN (H35GP00022)	196.5 (7.736)	136.5 (5.374)	G 1-1/4"	15.6 (34.4)
H35GP090H4D8RSBBN (H35GP00001)	201.5 (7.933)	137 (5.394)	G 1-1/4"	15.6 (34.4)
H35GP100H4D8RSBBN (H35GP00002)	205.5 (8.091)	137 (5.394)	G 1-1/4"	16.2 (35.7)
H35GP110H4D8RSBBN (H35GP00003)	210.5 (8.287)	137 (5.394)	G 1-1/4"	16.4 (36.2)



WARNING: This product can expose you to chemicals including lead or DEHP which are known to the state of California to cause cancer, birth defects, and other reproductive harm.
www.p65warnings.ca.gov

Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP0000# (HGPSP000##)	SEE TABLE B	1
2	H35GP-SP00005 (HGPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
8	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00018 (HGPSP00078)	35GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGPSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGPSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGPSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGPSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGPSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGPSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGPSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGPSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGPSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGPSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
25	H35GP-SP00019 (HGPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H35GP-SP00020 (HGPSP00080)	35GP - HEX SOCKET PORT PLUG, G1-1/4" BSPP	2
27	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
28	H35GP-SP00021 (HGPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00001 (HGPSP00061)	H35GP-SP00002 (HGPSP00062)	H35GP-SP00003 (HGPSP00063)	H35GP-SP00004 (HGPSP00064)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, ISO, BSPP PORTS
7	H35GP-SP00013 (HGPSP00073)	H35GP-SP00014 (HGPSP00074)	H35GP-SP00015 (HGPSP00075)	H35GP-SP00016 (HGPSP00076)
	35GP - 82cc (5.00in), DRIVE GEAR	35GP - 90cc (5.49in), DRIVE GEAR	35GP - 100cc (6.10in), DRIVE GEAR	35GP - 110cc (6.71in), DRIVE GEAR
8	H35GP-SP00009 (HGPSP00069)	H35GP-SP00010 (HGPSP00070)	H35GP-SP00011 (HGPSP00071)	H35GP-SP00012 (HGPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

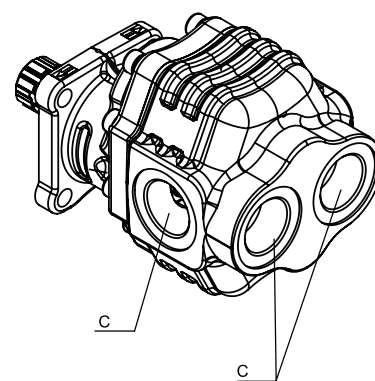
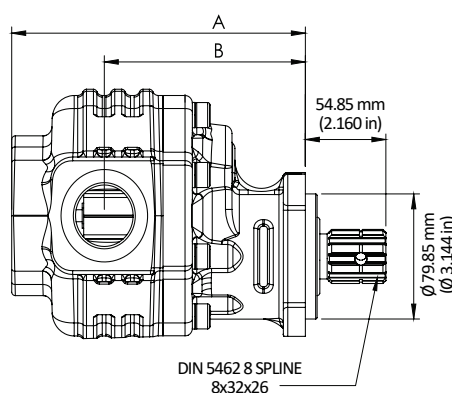
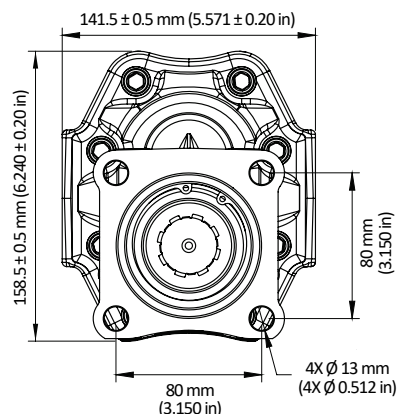
- » Designed for North American tapered pipe threads
- » **ISO 7653 4-bolt flange / DIN 5462 shaft** for direct PTO mounting to European DIN PTOs
- » **Rear & side NPTF ports (1½" NPTF)** for easy connection to North American pipes on dump and tipper trucks, transfer vehicles, fixed power units, and other mobile or stationary hydraulic applications



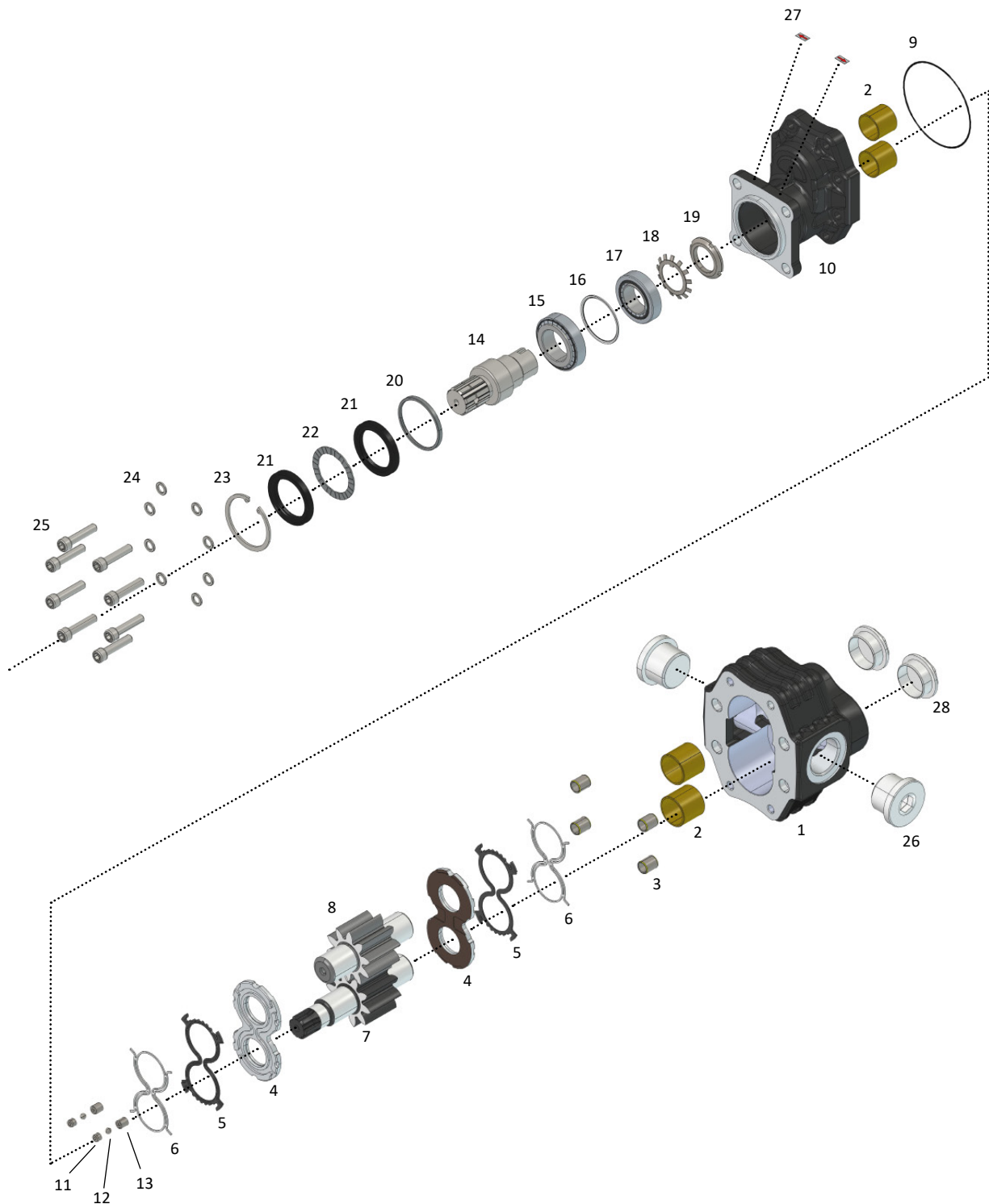
PRODUCT CODE	DISPLACEMENT cm³ rev (in³/rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082H4D8RSNBN (H35GP00023)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090H4D8RSNBN (H35GP00004)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100H4D8RSNBN (H35GP00005)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110H4D8RSNBN (H35GP00006)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082H4D8RSNBN (H35GP00023)	196.5 (7.736)	136.5 (5.374)	NPTF 1-1/4"	15.4 (34.0)
H35GP090H4D8RSNBN (H35GP00004)	201.5 (7.933)	137 (5.394)	NPTF 1-1/4"	15.4 (34.0)
H35GP100H4D8RSNBN (H35GP00005)	205.5 (8.091)	137 (5.394)	NPTF 1-1/4"	16.0 (35.3)
H35GP110H4D8RSNBN (H35GP00006)	210.5 (8.287)	137 (5.394)	NPTF 1-1/4"	16.2 (35.7)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGPSP0008#)	SEE TABLE B	1
2	H35GP-SP00005 (HGPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGPSP0007#)	SEE TABLE B	1
8	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00018 (HGPSP00078)	35GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGPSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGPSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGPSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGPSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGPSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGPSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGPSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGPSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGPSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGPSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
25	H35GP-SP00019 (HGPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H35GP-SP00026 (HGPSP00086)	35GP - HEX SOCKET PORT PLUG, 1-1/4" NPTF	2
27	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
28	H35GP-SP00021 (HGPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00022 (HGPSP00082)	H35GP-SP00023 (HGPSP00083)	H35GP-SP00024 (HGPSP00084)	H35GP-SP00025 (HGPSP00085)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS
7	H35GP-SP00013 (HGPSP00073)	H35GP-SP00014 (HGPSP00074)	H35GP-SP00015 (HGPSP00075)	H35GP-SP00016 (HGPSP00076)
	35GP - 82cc (5.00in), DRIVE GEAR	35GP - 90cc (5.49in), DRIVE GEAR	35GP - 100cc (6.10in), DRIVE GEAR	35GP - 110cc (6.71in), DRIVE GEAR
8	H35GP-SP00009 (HGPSP00069)	H35GP-SP00010 (HGPSP00070)	H35GP-SP00011 (HGPSP00071)	H35GP-SP00012 (HGPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

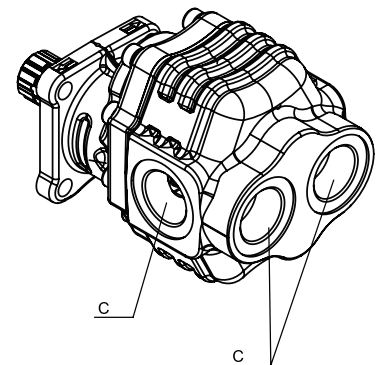
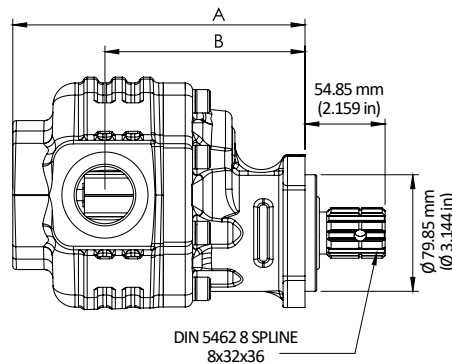
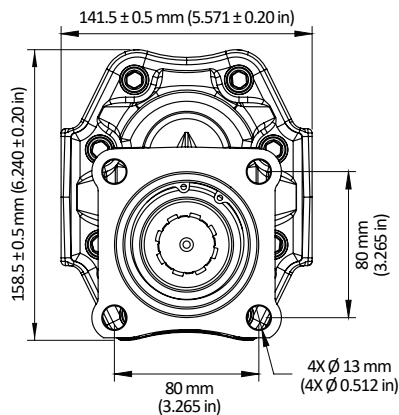
- » Ideal for DIN-mounted PTOs with SAE O-ring boss porting
- » **ISO 7653 4-bolt flange / DIN 5462 shaft** for direct PTO mounting to European DIN PTOs
- » **Rear & side ORB ports (ORB-20)** for easy and leak-tight connections to North American hose and fitting systems on tipper trucks, refuse and compactor systems, generators, hydraulic powerpacks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082H4D8RSOBN (H35GP00024)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090H4D8RSOBN (H35GP00007)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100H4D8RSOBN (H35GP00008)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110H4D8RSOBN (H35GP00009)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

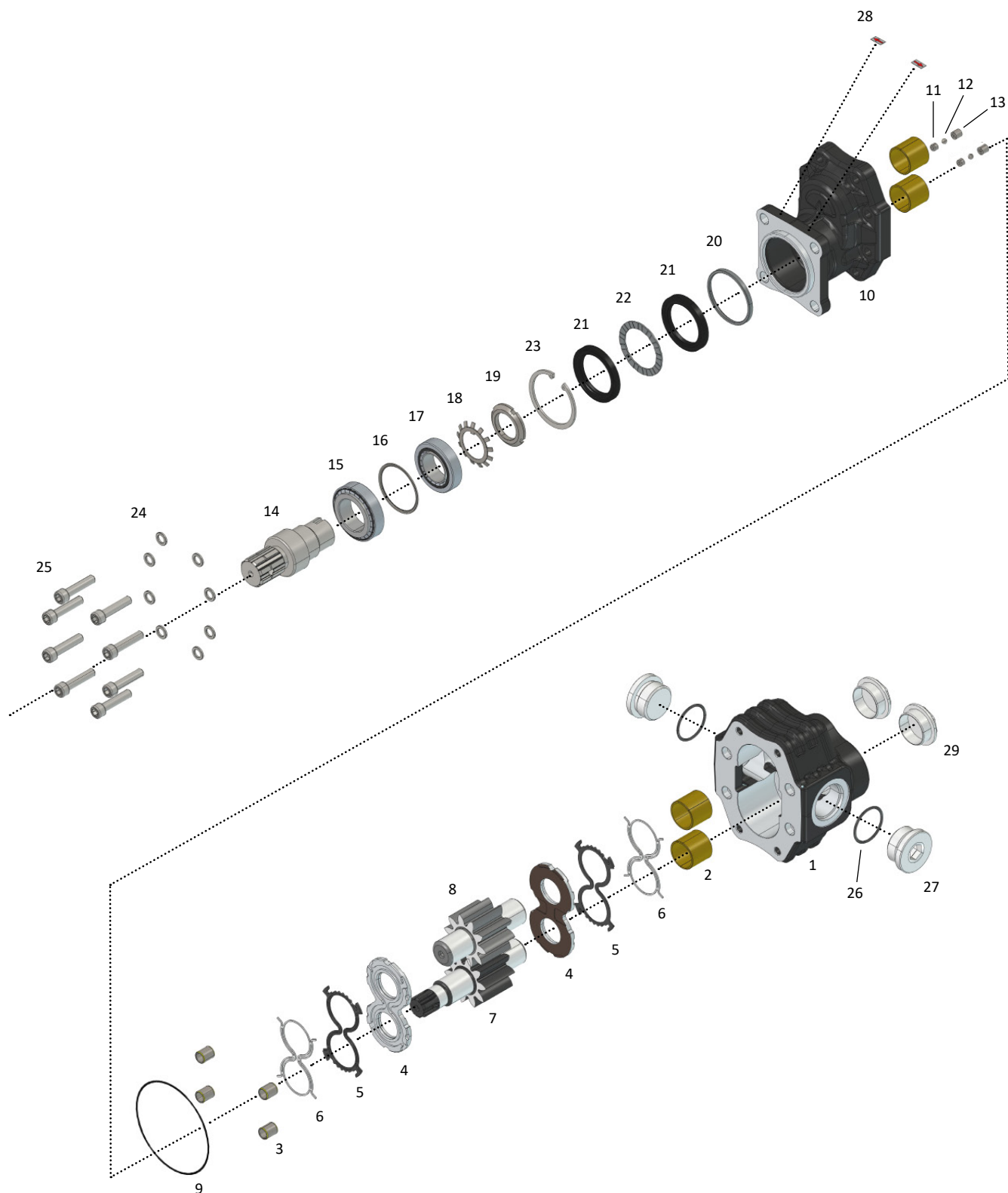
DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082H4D8RSOBN (H35GP00024)	196.5 (7.736)	136.5 (5.374)	1" 5/8-12UN	15.6 (34.4)
H35GP090H4D8RSOBN (H35GP00007)	201.5 (7.933)	137 (5.394)	1" 5/8-12UN	15.6 (34.4)
H35GP100H4D8RSOBN (H35GP00008)	205.5 (8.091)	137 (5.394)	1" 5/8-12UN	16.2 (35.7)
H35GP110H4D8RSOBN (H35GP00009)	210.5 (8.287)	137 (5.394)	1" 5/8-12UN	16.4 (36.2)



WARNING: This product can expose you to chemicals including lead or DEHP which are known to the state of California to cause cancer, birth defects, and other reproductive harm.
www.p65warnings.ca.gov

Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGSPSP000##)	SEE TABLE B	1
2	H35GP-SP00005 (HGSPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGSPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGSPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGSPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGSPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGSPSP0007#)	SEE TABLE B	1
8	H35GP-SP000## (HGSPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGSPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00018 (HGSPSP00078)	35GP - ISO FRONT COVER	1
11	HGP-SP00002 (HGSPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGSPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGSPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00005 (HGSPSP00106)	DIN 5462 ADAPTER SHAFT	1
15	HGP-SP00006 (HGSPSP00107)	TAPERED ROLLER BEARING 32008, 40 x 68 x 19 mm	1
16	HGP-SP00007 (HGSPSP00108)	Ø62 x 2 SHOULDERED SPACER WASHER	1
17	HGP-SP00008 (HGSPSP00109)	TAPERED ROLLER BEARING 32007X, 35 x 62 x 18 mm	1
18	HGP-SP00009 (HGSPSP00110)	Ø35 LOCK WASHER	1
19	HGP-SP00010 (HGSPSP00111)	M35 x 1.5 LOCK NUT	1
20	HGP-SP00011 (HGSPSP00112)	Ø68 SHOULDERED SPACER WASHER	1
21	HGP-SP00012 (HGSPSP00113)	NBR SHAFT SEAL, 50 x 68 x 7 mm	2
22	HGP-SP00013 (HGSPSP00114)	WAVE WASHER, 50.5 x 67 x 2 mm	1
23	HGP-SP00014 (HGSPSP00115)	Ø68 INTERNAL CIRCLIP / RETAINING RING	1
24	HGP-SP00015 (HGSPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
25	H35GP-SP00019 (HGSPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
26	H35GP-SP00031 (HGSPSP00091)	35GP - NBR PORT PLUG O-RING, 38 x 3 mm	2
27	H35GP-SP00032 (HGSPSP00092)	35GP - HEX SOCKET PORT PLUG - 1-5/8"-12 UN ORB	2
28	HGP-SP00016 (HGSPSP00117)	PUMP ROTATION DIRECTION LABEL	2
29	H35GP-SP00021 (HGSPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00027 (HGSPSP00087)	H35GP-SP00028 (HGSPSP00088)	H35GP-SP00029 (HGSPSP00089)	H35GP-SP00030 (HGSPSP00090)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, ORB PORTS
7	H35GP-SP00013 (HGSPSP00073)	H35GP-SP00014 (HGSPSP00074)	H35GP-SP00015 (HGSPSP00075)	H35GP-SP00016 (HGSPSP00076)
	35GP - 82cc (5.00in), DRIVE GEAR	35GP - 90cc (5.49in), DRIVE GEAR	35GP - 100cc (6.10in), DRIVE GEAR	35GP - 110cc (6.71in), DRIVE GEAR
8	H35GP-SP00009 (HGSPSP00069)	H35GP-SP00010 (HGSPSP00070)	H35GP-SP00011 (HGSPSP00071)	H35GP-SP00012 (HGSPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

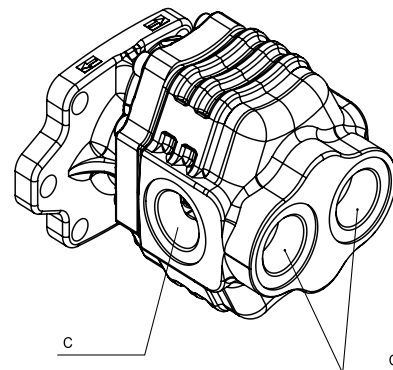
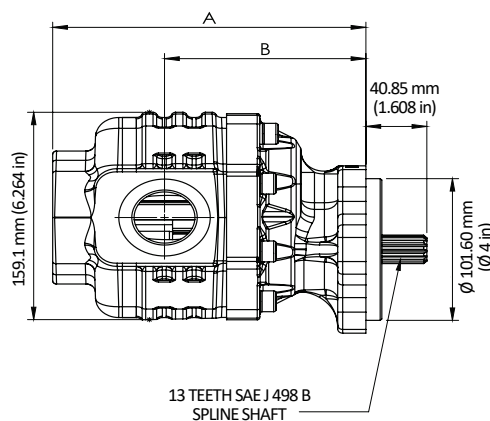
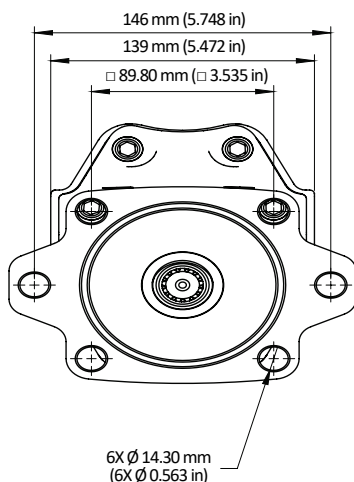
- » Designed for PTO-driven trucks and heavy equipment using SAE B 2-bolt PTOs and NPTF pipe threads
- » **SAE B6 2-bolt flange / SAE B 7/8"-13T spline shaft** for direct PTO mounting to SAE B PTOs
- » **Rear & side NPTF ports (1 1/4" NPTF)** to easily connect with North American tapered pipework on dump and tipper trucks, recovery vehicles, blower drives, winches, and other mobile or stationary hydraulic applications



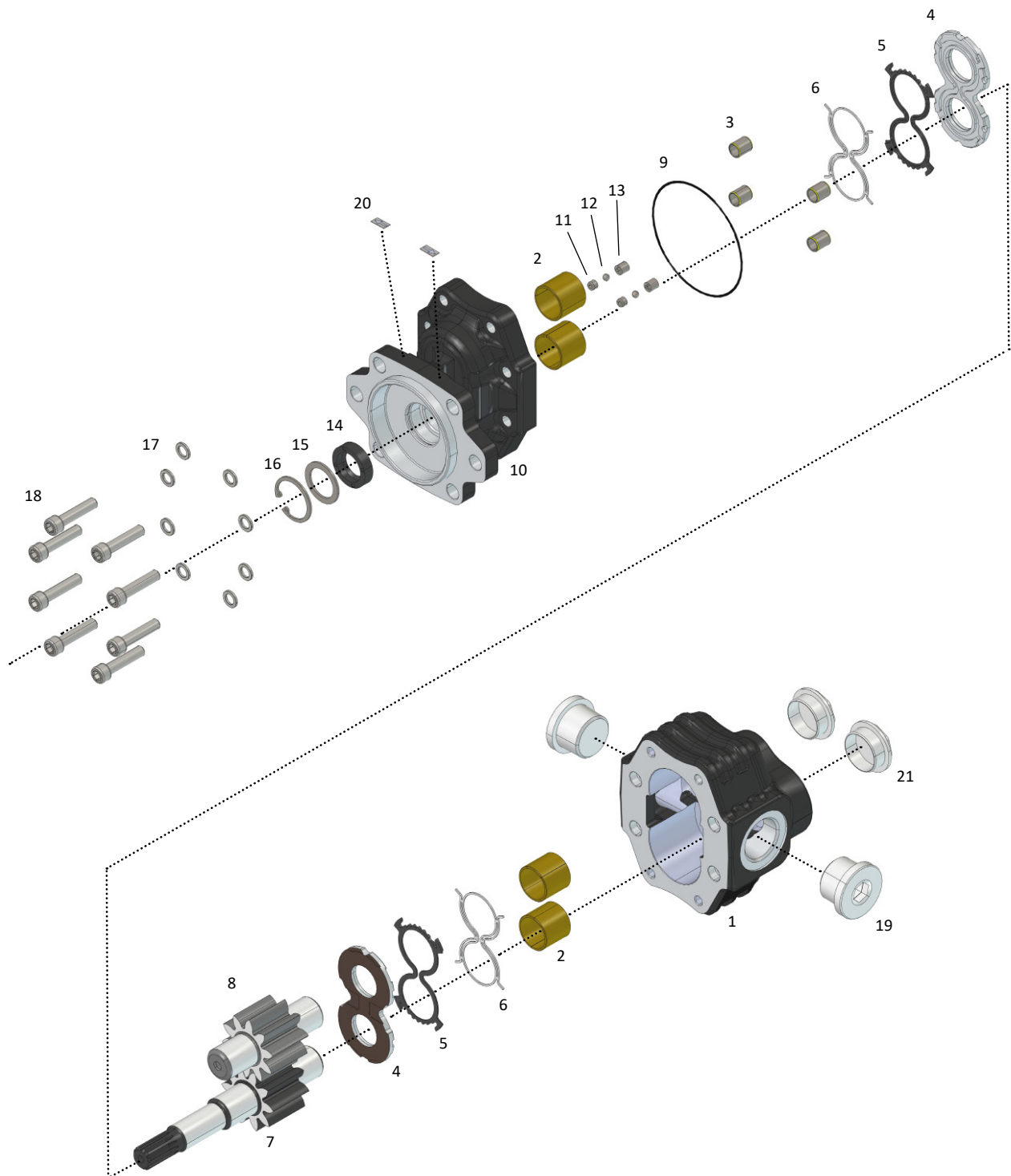
PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082B6S13RSNBN (H35GP00025)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090B6S13RSNBN (H35GP00010)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100B6S13RSNBN (H35GP00011)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110B6S13RSNBN (H35GP00012)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082B6S13RSNBN (H35GP00025)	183.5 (7.224)	123.5 (4.862)	NPTF 1-1/4"	15.6 (34.4)
H35GP090B6S13RSNBN (H35GP00010)	187 (7.362)	124 (4.882)	NPTF 1-1/4"	15.6 (34.4)
H35GP100B6S13RSNBN (H35GP00011)	191.5 (7.539)	124 (4.882)	NPTF 1-1/4"	16.2 (35.7)
H35GP110B6S13RSNBN (H35GP00012)	197.5 (7.776)	124 (4.882)	NPTF 1-1/4"	16.4 (36.2)



Exploded View



Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGPSP0008#)	SEE TABLE B	1
2	H35GP-SP00005 (HGPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGPSP0009#)	SEE TABLE B	1
8	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00037 (HGPSP00097)	35GP - SAE-B6 FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
15	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
16	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
17	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
18	H35GP-SP00019 (HGPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
19	H35GP-SP00026 (HGPSP00086)	35GP - HEX SOCKET PORT PLUG, 1-1/4" NPTF	2
20	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
21	H35GP-SP00021 (HGPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00022 (HGPSP00082)	H35GP-SP00023 (HGPSP00083)	H35GP-SP00024 (HGPSP00084)	H35GP-SP00025 (HGPSP00085)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS
7	H35GP-SP00033 (HGPSP00093)	H35GP-SP00034 (HGPSP00094)	H35GP-SP00035 (HGPSP00095)	H35GP-SP00036 (HGPSP00096)
	35GP - 82cc (5.00in), SAE B 13T DRIVE GEAR	35GP - 90cc (5.49in), SAE B 13T DRIVE GEAR	35GP - 100cc (6.10in), SAE B 13T DRIVE GEAR	35GP - 110cc (6.71in), SAE B 13T DRIVE GEAR
8	H35GP-SP00009 (HGPSP00069)	H35GP-SP00010 (HGPSP00070)	H35GP-SP00011 (HGPSP00071)	H35GP-SP00012 (HGPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

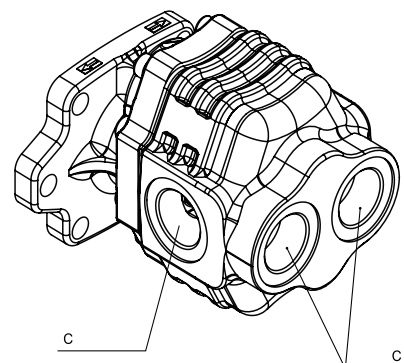
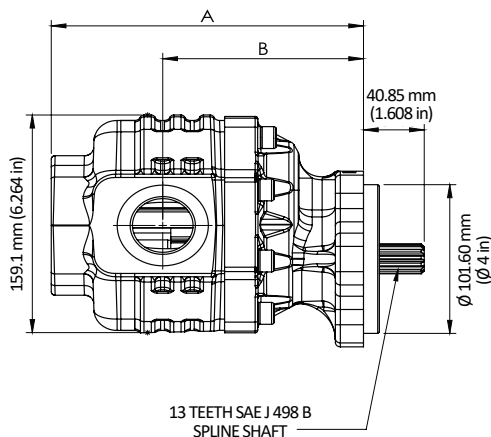
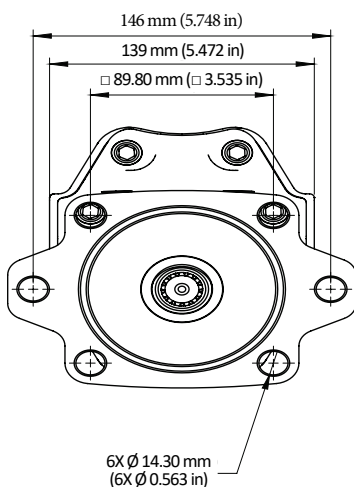
- » Ideal for equipment using SAE O-ring boss porting
- » **SAE B6 2-bolt flange / SAE B 7/8"-13T spline shaft** for direct PTO mounting to SAE B PTOs
- » **Rear & side SAE ORB ports (ORB-20)** for leak-tight hose connections on tipper trucks, recovery vehicles, refuse equipment, hydraulic powerpacks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082B6S13RSOBN (H35GP00026)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090B6S13RSOBN (H35GP00013)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100B6S13RSOBN (H35GP00014)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110B6S13RSOBN (H35GP00015)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082B6S13RSOBN (H35GP00026)	183.5 (7.224)	123.5 (4.862)	1" 5/8-12UN	15.6 (34.4)
H35GP090B6S13RSOBN (H35GP00013)	187 (7.362)	124 (4.882)	1" 5/8-12UN	15.6 (34.4)
H35GP100B6S13RSOBN (H35GP00014)	191.5 (7.539)	124 (4.882)	1" 5/8-12UN	16.2 (35.7)
H35GP110B6S13RSOBN (H35GP00015)	197.5 (7.776)	124 (4.882)	1" 5/8-12UN	16.4 (36.2)



This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor housing. The parts are numbered 1 through 22. The main housing (1) is a black, cast metal part with a central opening. It is surrounded by various seals and gaskets (2, 3, 4, 5, 6, 14, 15, 16, 17, 18, 19, 20, 21, 22). A central shaft assembly (7) with a gear (8) is shown at the bottom. The diagram uses dashed lines to show the relative positions and assembly sequence of the components.

Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGSP000##)	SEE TABLE B	1
2	H35GP-SP00005 (HGSP000065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGSP000102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGSP000066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGSP000067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGSP000068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGSP00009#)	SEE TABLE B	1
8	H35GP-SP000## (HGSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGSP000077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00037 (HGSP000097)	35GP - SAE-B6 FRONT COVER	1
11	HGP-SP00002 (HGSP000103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGSP000104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGSP000105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00017 (HGSP000118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
15	HGP-SP00018 (HGSP000119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
16	HGP-SP00019 (HGSP000120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
17	HGP-SP00015 (HGSP000116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
18	H35GP-SP00019 (HGSP000079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
19	H35GP-SP00031 (HGSP000091)	35GP - NBR PORT PLUG O-RING, 38 x 3 mm	2
20	H35GP-SP00032 (HGSP000092)	35GP - HEX SOCKET PORT PLUG - 1-5/8"-12 UN ORB	2
21	HGP-SP00016 (HGSP000117)	PUMP ROTATION DIRECTION LABEL	2
22	H35GP-SP00021 (HGSP000081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00027 (HGSP000087)	H35GP-SP00028 (HGSP000088)	H35GP-SP00029 (HGSP000089)	H35GP-SP00030 (HGSP000090)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, ORB PORTS
7	H35GP-SP00033 (HGSP000093)	H35GP-SP00034 (HGSP000094)	H35GP-SP00035 (HGSP000095)	H35GP-SP00036 (HGSP000096)
	35GP - 82cc (5.00in), SAE B 13T DRIVE GEAR	35GP - 90cc (5.49in), SAE B 13 T DRIVE GEAR	35GP - 100cc (6.10in), SAE B 13T DRIVE GEAR	35GP - 110cc (6.71in), SAE B 13T DRIVE GEAR
8	H35GP-SP00009 (HGSP000069)	H35GP-SP00010 (HGSP000070)	H35GP-SP00011 (HGSP000071)	H35GP-SP00012 (HGSP000072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

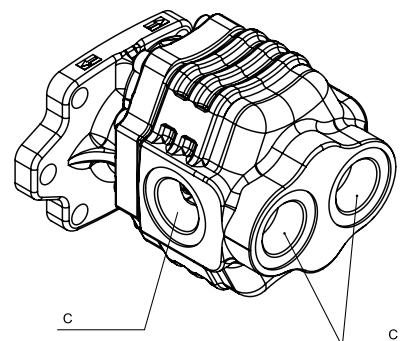
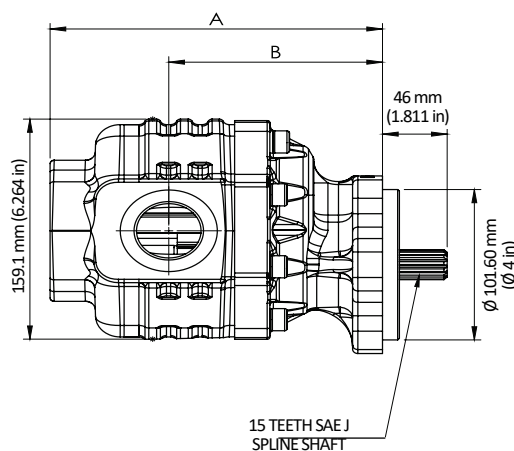
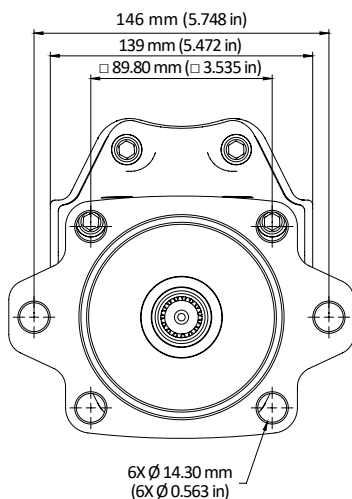
- » **SAE B6 2-bolt flange / SAE BB 1"-15T spline shaft** for high-torque connection to SAE BB PTOs and clutches
- » **Rear & side SAE NPTF ports (1 1/4" NPTF)** for easy connection to North American pipework on heavy tipper trucks, recovery vehicles, industrial drives, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082B6S15RSNBN (H35GP00027)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090B6S15RSNBN (H35GP00016)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100B6S15RSNBN (H35GP00017)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110B6S15RSNBN (H35GP00018)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082B6S15RSNBN (H35GP00027)	183.5 (7.224)	123.5 (4.862)	NPTF 1-1/4"	15.6 (34.4)
H35GP090B6S15RSNBN (H35GP00016)	187 (7.362)	124 (4.882)	NPTF 1-1/4"	15.6 (34.4)
H35GP100B6S15RSNBN (H35GP00017)	191.5 (7.539)	124 (4.882)	NPTF 1-1/4"	16.2 (35.7)
H35GP110B6S15RSNBN (H35GP00018)	197.5 (7.776)	124 (4.882)	NPTF 1-1/4"	16.4 (36.2)



WARNING: This product can expose you to chemicals including lead or DEHP which are known to the state of California to cause cancer, birth defects, and other reproductive harm.
www.p65warnings.ca.gov

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The parts are numbered 1 through 21. The main housing (1) is a black, cast metal part with a central opening. It is surrounded by various seals and gaskets (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21). A central shaft assembly (22) is shown at the bottom, featuring a black shaft (22), a grey gear (23), a black gear (24), and a black nut (25). The diagram uses dashed lines to show the assembly sequence and alignment of the parts.

Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGPSP0008#)	SEE TABLE B	1
2	H35GP-SP00005 (HGPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGPSP00###)	SEE TABLE B	1
8	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00037 (HGPSP00097)	35GP - SAE-B6 FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
15	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
16	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
17	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
18	H35GP-SP00019 (HGPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
19	H35GP-SP00026 (HGPSP00086)	35GP - HEX SOCKET PORT PLUG, 1-1/4" NPTF	2
20	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
21	H35GP-SP00021 (HGPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00022 (HGPSP00082)	H35GP-SP00023 (HGPSP00083)	H35GP-SP00024 (HGPSP00084)	H35GP-SP00025 (HGPSP00085)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, NPTF PORTS
7	H35GP-SP00038 (HGPSP00098)	H35GP-SP00039 (HGPSP00099)	H35GP-SP00040 (HGPSP00100)	H35GP-SP00041 (HGPSP00101)
	35GP - 82cc (5.00in), SAE BB 15T DRIVE GEAR	35GP - 90cc (5.49in), SAE BB 15T DRIVE GEAR	35GP - 100cc (6.10in), SAE BB 15T DRIVE GEAR	35GP - 110cc (6.71in), SAE BB 15T DRIVE GEAR
8	H35GP-SP00009 (HGPSP00069)	H35GP-SP00010 (HGPSP00070)	H35GP-SP00011 (HGPSP00071)	H35GP-SP00012 (HGPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

Displacement Range: 82 - 110cc

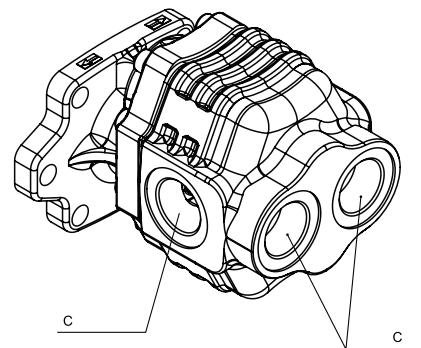
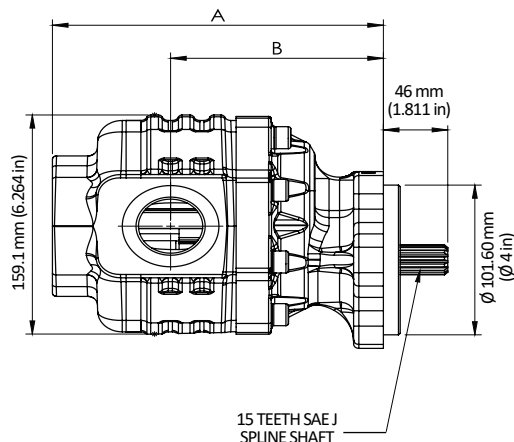
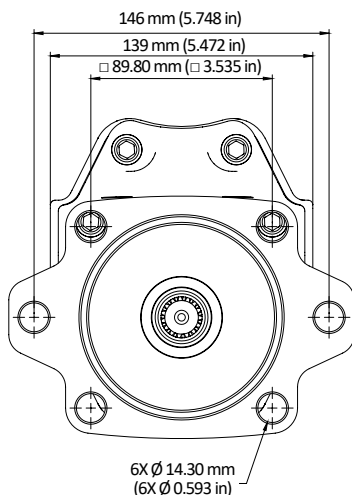
- » **SAE B6 2-bolt flange / SAE BB 1"-15T spline shaft** for direct PTO mounting to SAE BB PTOs and clutches
- » **Rear & side SAE ORB ports (ORB-20)** for leak-tight hose connections on heavy dump trucks, recovery vehicles, refuse packers, generators, hydraulic powerpacks, and other mobile or stationary hydraulic applications



PRODUCT CODE	DISPLACEMENT cm ³ rev (in ³ /rev)	MAX. CONT. PRESSURE BAR (PSI)	MAX. INT. PRESSURE BAR (PSI) (max 20 sec.)	MIN. SPEED (rpm)	MAX. CONT. SPEED (rpm)	MAX. INT. SPEED (rpm) P≤40 bar
H35GP082B6S15RSOBN (H35GP00028)	82cc (5.00in)	260 (3771)	300 (4351)	300	1900	2500
H35GP090B6S15RSOBN (H35GP00019)	90cc (5.49in)	260 (3771)	300 (4351)	300	1900	2500
H35GP100B6S15RSOBN (H35GP00020)	100cc (6.10in)	250 (3626)	280 (4061)	300	1500	1800
H35GP110B6S15RSOBN (H35GP00021)	110cc (6.71in)	250 (3626)	280 (4061)	300	1500	1800

DIMENSIONS

PRODUCT CODE	A mm ± 0.5 (inches ± 0.02)	B mm ± 0.5 (inches ± 0.02)	C PORT	WEIGHT kg - ± 0.15 (lbs - ± 0.3)
H35GP082B6S15RSOBN (H35GP00028)	183.5 (7.224)	123.5 (4.862)	1" 5/8-12UN	15.6 (34.4)
H35GP090B6S15RSOBN (H35GP00019)	187 (7.362)	124 (4.882)	1" 5/8-12UN	15.6 (34.4)
H35GP100B6S15RSOBN (H35GP00020)	191.5 (7.539)	124 (4.882)	1" 5/8-12UN	16.2 (35.7)
H35GP110B6S15RSOBN (H35GP00021)	197.5 (7.776)	124 (4.882)	1" 5/8-12UN	16.4 (36.2)



This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The parts are numbered 1 through 22. The main housing (1) is a black, cast metal part with a central opening. It is surrounded by various seals and gaskets (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22). A central shaft (23) with a gear (24) is shown at the bottom left. The diagram uses dashed lines to show the assembly sequence and alignment of the parts.

Parts Break Down

TABLE A

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
2	H35GP-SP00005 (HGPSP00065)	35GP - PTFE-LINED BUSHING, 30 x 34 x 30 mm	4
3	HGP-SP00001 (HGPSP00102)	GP - LOCATING PIN, 14 x 11 x 16 mm	4
4	H35GP-SP00006 (HGPSP00066)	35GP - BI-DIRECTIONAL BRONZE THRUST PLATE	2
5	H35GP-SP00007 (HGPSP00067)	35GP - BI-DIRECTIONAL M-RING SEAL	2
6	H35GP-SP00008 (HGPSP00068)	35GP - BI-DIRECTIONAL PTFE SEAL RING	2
7	H35GP-SP000## (HGPSP00###)	SEE TABLE B	1
8	H35GP-SP000## (HGPSP000##)	SEE TABLE B	1
9	H35GP-SP00017 (HGPSP00077)	35GP - NBR BODY O-RING, 107 x 2 mm	1
10	H35GP-SP00037 (HGPSP00097)	35GP - SAE-B6 FRONT COVER	1
11	HGP-SP00002 (HGPSP00103)	BI-DIRECTIONAL VALVE CARTRIDGE	2
12	HGP-SP00003 (HGPSP00104)	1/4" STEEL BALL	2
13	HGP-SP00004 (HGPSP00105)	M10 x 1.5 x 9 SET SCREW, BLACK OXIDE, 3-HOLE TYPE	2
14	HGP-SP00017 (HGPSP00118)	NBR SHAFT SEAL, 25 x 40 x 10 mm	1
15	HGP-SP00018 (HGPSP00119)	SHAFT-END WASHER, 29 x 40 x 2 mm	1
16	HGP-SP00019 (HGPSP00120)	Ø40 INTERNAL CIRCLIP / RETAINING RING	1
17	HGP-SP00015 (HGPSP00116)	M10 FLAT WASHER, 10 x 16 x 1.8 mm	8
18	H35GP-SP00019 (HGPSP00079)	35GP - M10 x 1.5 x 45 SOCKET HEAD CAP SCREW, FULL THREAD, BLACK OXIDE, CLASS 12.9	8
19	H35GP-SP00031 (HGPSP00091)	35GP - NBR PORT PLUG O-RING, 38 x 3 mm	2
20	H35GP-SP00032 (HGPSP00092)	35GP - HEX SOCKET PORT PLUG - 1-5/8"-12 UN ORB	2
21	HGP-SP00016 (HGPSP00117)	PUMP ROTATION DIRECTION LABEL	2
22	H35GP-SP00021 (HGPSP00081)	35GP - PLASTIC THREADED PORT PROTECTION PLUG	2

TABLE B

ITEM NUMBER	DISPLACEMENT: 82cc (5.00in)	DISPLACEMENT: 90cc (5.49in)	DISPLACEMENT: 100cc (6.10in)	DISPLACEMENT: 110cc (6.71in)
1	H35GP-SP00027 (HGPSP00087)	H35GP-SP00028 (HGPSP00088)	H35GP-SP00029 (HGPSP00089)	H35GP-SP00030 (HGPSP00090)
	35GP - 82cc (5.00in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 90cc (5.49in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 100cc (6.10in), BI-DIRECTIONAL PUMP BODY, ORB PORTS	35GP - 110cc (6.71in), BI-DIRECTIONAL PUMP BODY, ORB PORTS
7	H35GP-SP00038 (HGPSP00098)	H35GP-SP00039 (HGPSP00099)	H35GP-SP00040 (HGPSP00100)	H35GP-SP00041 (HGPSP00101)
	35GP - 82cc (5.00in), SAE BB 15T DRIVE GEAR	35GP - 90cc (5.49in), SAE BB 15T DRIVE GEAR	35GP - 100cc (6.10in), SAE BB 15T DRIVE GEAR	35GP - 110cc (6.71in), SAE BB 15T DRIVE GEAR
8	H35GP-SP00009 (HGPSP00069)	H35GP-SP00010 (HGPSP00070)	H35GP-SP00011 (HGPSP00071)	H35GP-SP00012 (HGPSP00072)
	35GP - 82cc (5.00in), IDLER GEAR	35GP - 90cc (5.49in), IDLER GEAR	35GP - 100cc (6.10in), IDLER GEAR	35GP - 110cc (6.71in), IDLER GEAR

WARRANTY POLICY

Heavy Motions pump is warranted against any defect in material and workmanship which existed at the time of sale by Heavy Motions, according to the following provisions, subject to the requirements that the pump must be used only in accordance with catalog and package instructions.

Heavy Motions pump is warranted for a period of (1) one year (12 months) from the date of service or 1-1/2 years (18 months) from date of sales/builds, or 12 months of date of installation, whichever is sooner, against any defect in material and workmanship which existed at the time of sale by Heavy Motions Inc., according to the following provisions, subject to the requirements that the pump must be used only in the appropriate applications and following the Installation and Owner's Manual instructions.

WARNING: The above warranty shall terminate if any alterations or repairs are made to the pump other than at Heavy Motions, or if the pump is used on any equipment other than the equipment upon which it is first installed.

The foregoing warranties are in lieu of all other obligations and liabilities, including negligence and all warranties of merchantability and suitability, expressed or implied, and state Heavy Motions' entire and exclusive liability and buyer's exclusive remedy for any claim of damages in connection with the sale, repair or replacement of the above goods, their design, installation or operation. Heavy Motions will in no event be liable for any direct, indirect, special, incidental or consequential damages whatsoever, and our liability under no circumstances will exceed the contract price for the goods for which liability is claimed.

Heavy Motions is not liable for any repair related cost incurred to the buyer at any time if the repair is conducted by the buyer without written authorization from Heavy Motions.

WARRANTY PROCEDURE

- Step 1:** Check your installation date and see if your pump is still within the warranty period.
- Step 2:** Call your sales representative at Heavy Motions to report the issue, get the written authorization as well as the address to ship the pump back.
- Step 3:** Ship the problem pump to the address you get from your sales representative at Heavy Motions, freight prepaid by the buyer.
- Step 4:** Once the problem pump has been received, Heavy Motions will conduct a detailed analysis of the problem pump and provide the buyer with a report. If the problem is caused by Heavy Motions' material or workmanship, Heavy Motions will either send a new pump or issue a credit memo to the buyer at the choice of the buyer. The freight prepaid by the buyer will also be reimbursed by Heavy Motions to the buyer.

However, if the report shows the problem is not caused by Heavy Motions' material or workmanship, Heavy Motions will not be liable for the problem and the related cost.

NOTES

CONTACT

CALIFORNIA

2134 S. Green Privado
Ontario, CA 91761
(909) 627-1000

GEORGIA

241 Industrial Park Rd
Baldwin, GA 3051
(706) 686-4199

CANADA

7031 68 Ave NW
Edmonton, AB T6B 3E3
(587) 635-4537

www.HeavyMotions.com

info@heavymotions.com