

ROTATING RIGHT

D/G-15/17 HYDRA-CELL DIAPHRAGM PUMP

D/G-15/17 Series

Up to 15 gpm (57 l/min)



Hydra-Cell®
SIMPLY BUILT TO LAST

D/G-15/17 Series Performance

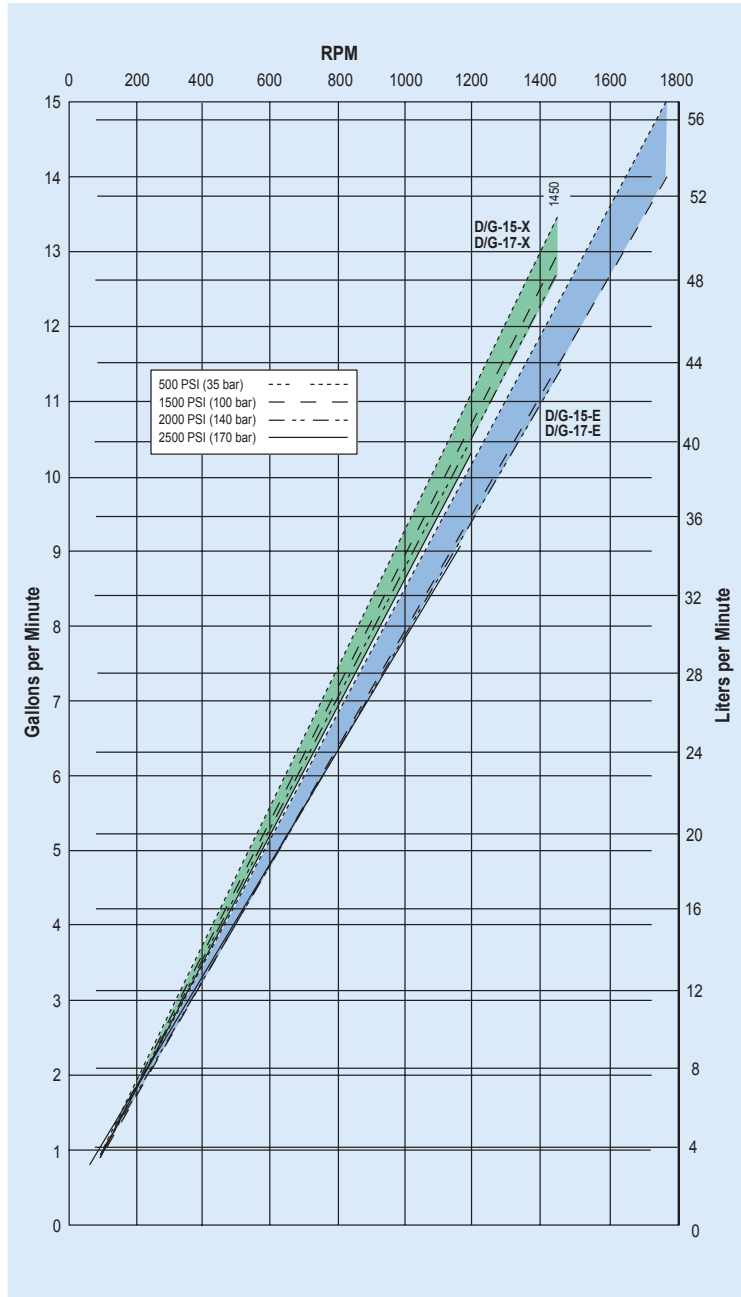
flow

model	max flow		max input rpm
	gpm	l/min	
D/G-15-X/D-17-X	13.4	50	1450
D/G-15-E/D-17-E	15.1	57	1750

pressure

Maximum Inlet Pressure:
500 psi (35 bar)

Pressure Variable To:
2500 psi (170 bar)



Calculating Required Horsepower (kW)**

$$\frac{80 \times \text{rpm}}{63,000} + \frac{\text{gpm} \times \text{psi}}{1,460 - \left(\frac{\text{psi}-500}{20}\right)} = \text{electric motor HP}$$

$$\frac{80 \times \text{rpm}}{84,428} + \frac{\text{lpm} \times \text{bar}}{511 - \left(\frac{\text{bar}-35}{4}\right)} = \text{electric motor kW}$$

**rpm equals pump shaft rpm. HP/kW is required application power. Use caution when sizing motors with variable speed drives.

D/G-15/17 Series Specifications

Max Pressure	1500 psi (100 bar) @ 1750 rpm (D/G-15-E and D/G-17-E only) 2000 psi (140 bar) @ 1450 rpm; 2500 psi (170 bar) @ 1150 rpm
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Capacity @ Rated Pressure

	@ Max RPM	psi	(bar)	gpm	l/min
D-15/17-X	1450	1000	(70)	13.4	50
	1450	1500	(100)	13.0	48
	1450	2000	(140)	12.7	48
	1150	2500	(170)	10.3	39
D-15/17-E	1750	1000	(70)	15.1	57
	1750	1500	(100)	14.1	53
	1450	2000	(140)	11.5	44
	1150	2500	(170)	9.4	35

Delivery @ Rated Pressure

	psi	(bar)	revs/gal	revs/liter
D-15/17-X	1000	(70)	109	28.8
	1500	(100)	112	29.6
	2000	(140)	114	30.2
	2500	(170)	112	29.6
D-15/17-E	1000	(70)	116	30.6
	1500	(100)	124	32.8
	2000	(140)	126	33.3
	2500	(170)	122	32.3

Max Inlet Pressure	500 psi (35 bar)
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Max Temperature	250°F (121°C) – Consult factory for correct component selection for temperatures above 160°F (71°C)
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Inlet Port	D-15/17: 1-1/4 inch NPT
	G-15/17: 1-1/4 inch BSPT

Discharge Port	D-15/17: 3/4 inch NPT
	G-15/17: 3/4 inch BSPT

Shaft Diameter	1-1/8 inch (28.58 mm)
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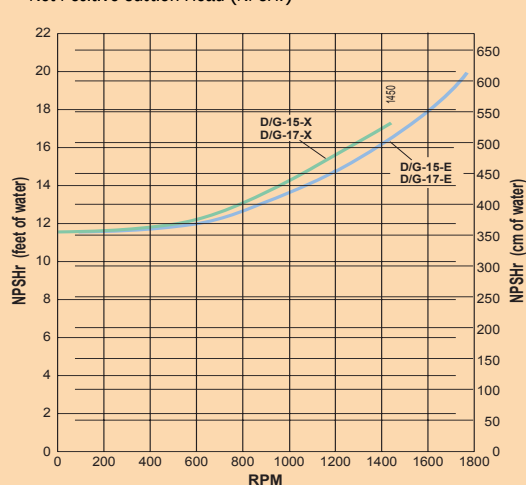
Shaft Rotation	Bi-directional
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Bearings	Taper roller bearings
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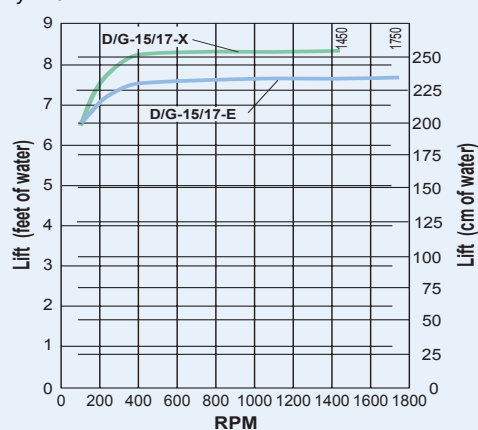
Oil Capacity	2.2 U.S. quart (2.08 liters) see Accessories Section for oil selection and specification.
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Weight	145 lbs (66 kg)
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Net Positive Suction Head (NPSHr)



Dry Lift



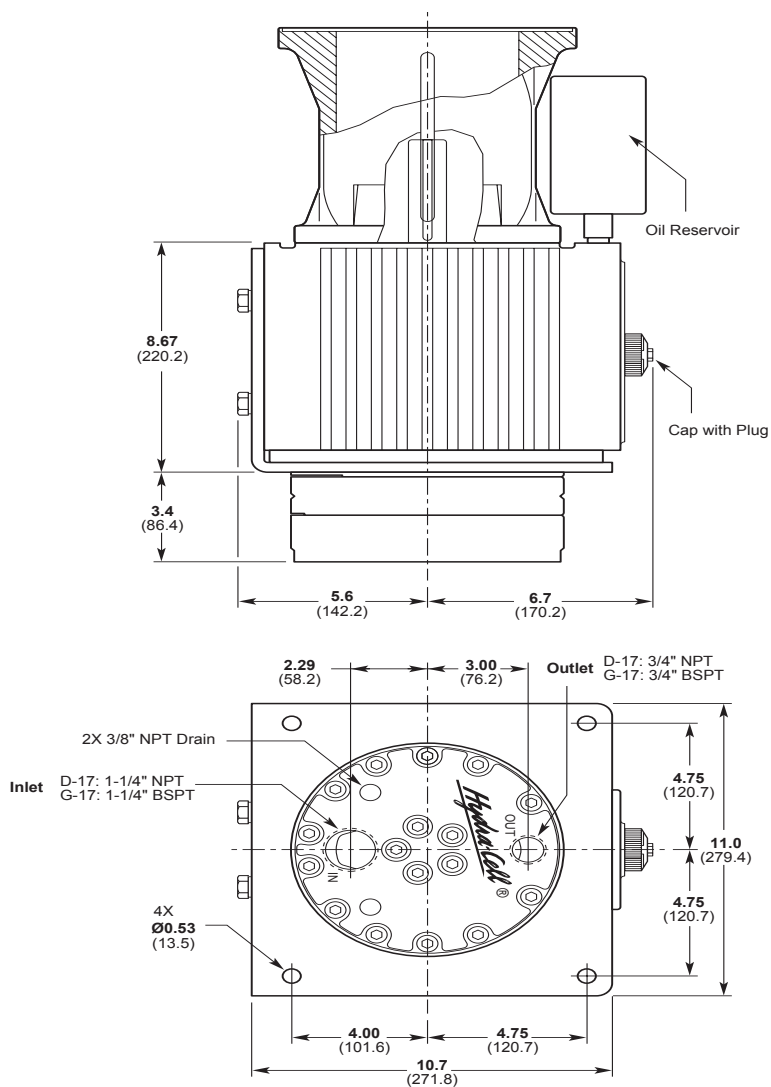
Refer to installation guidelines and design considerations section for additional information.

D/G-15/17 Series Dimensions

D/G-17 Models Vertical Mount

Brass
316 Stainless Steel

*D/G-17 Pump/Motor Adapter
flange ordered separately (see
page 66 for part number
ordering information)*

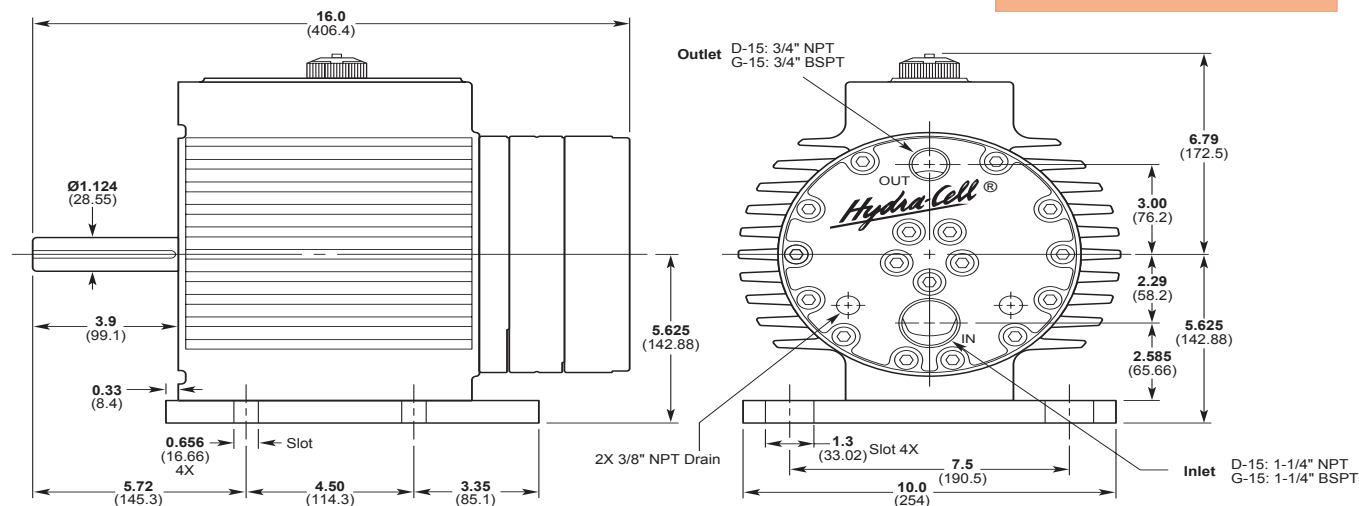


D/G-15/17 Series Dimensions

D/G-15 Models Horizontal Mount

Brass
316 Stainless Steel

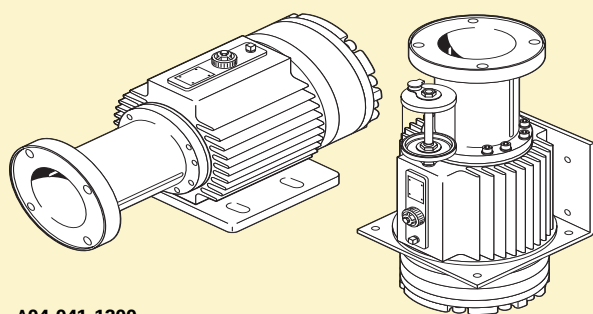
D/G-15 Pump/Motor Adapter flange ordered separately (see below for part number ordering information)



D-15/17 Series Accessories

Pump / Motor Adapter Kit

(Ordered Separately)



A04-041-1200

For D-15/17 for use with NEMA 182TC thru 256TC C-Face motors.

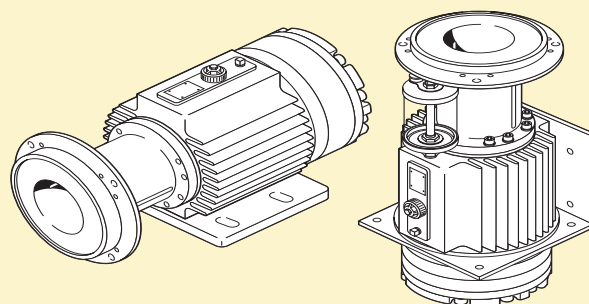
A04-041-1202

For D-15/17 for use with NEMA 284TC-286TC C-Face motors.

A04-041-1203

For G-15/17 for use with IEC 160 B14 Face motors.

(Coupling ordered separately)



A04-041-1201

For G-15/17 for use with IEC 132 B5 Flange motors.

A04-041-1205

For G-15/17 for use with IEC 160/180 B5 Flange motors.

See the Accessories Section for dimensions.

D/G-15/17 Series How To Order

Ordering Information

A complete model number contains 12 digits of customer-specified design options: for example D15XABTHFECG.

1	2	3	4	5	6	7	8	9	10	11	12
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Digit	Order Code	Description
1-3		Pump Configuration
	D15	Horizontal shaft-driven (NPT ports)
	D17	Vertical shaft-driven (NPT ports)
	G15	Horizontal shaft-driven (BSPT ports)
4		Hydraulic End Cam
	X	Max 13 gpm (49 lpm) @ 1450 rpm
	E	Max 15 gpm (56 lpm) @ 1750 rpm
5		Pump Head Version
	A	Version A Pump Head (NPT ports)
6		Pump Head Material
	B	Brass
7		Diaphragm & O-ring Material
	G	Viton®-XT
8		Valve Seat Material
	H	17-4 PH Stainless Steel
9		Valve Material
	N	Nitronic 50
10		Valve Springs
	E	Elgiloy®
11		Valve Spring Retainers
	C	Celcon
12		Hydra-Oil
	H	17-4 PH Stainless Steel
13		Valve Material
	N	Nitronic 50
14		Valve Springs
	E	Elgiloy®
15		Valve Spring Retainers
	C	Celcon
16		Hydra-Oil
	H	17-4 PH Stainless Steel
17		Valve Material
	N	Nitronic 50
18		Valve Springs
	E	Elgiloy®
19		Valve Spring Retainers
	C	Celcon
20		Hydra-Oil
	H	17-4 PH Stainless Steel
21		Valve Material
	N	Nitronic 50
22		Valve Springs
	E	Elgiloy®
23		Valve Spring Retainers
	C	Celcon
24		Hydra-Oil
	H	17-4 PH Stainless Steel
25		Valve Material
	N	Nitronic 50
26		Valve Springs
	E	Elgiloy®
27		Valve Spring Retainers
	C	Celcon
28		Hydra-Oil
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30		Valve Springs
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31		Valve Spring Retainers
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34		Valve Springs
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35		Valve Spring Retainers
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36		Hydra-Oil
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37		Valve Material
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38		Valve Springs
	E	Elgiloy®
39		Valve Spring Retainers
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40		Hydra-Oil
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	E	Elgiloy®
43		Valve Spring Retainers
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44		Hydra-Oil
	H	17-4 PH Stainless Steel
45		Valve Material
	N	Nitronic 50
46		Valve Springs
	E	Elgiloy®
47		Valve Spring Retainers
	C	Celcon
48		Hydra-Oil
	H	17-4 PH Stainless Steel
49		Valve Material
	N	Nitronic 50
50		Valve Springs
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51		Valve Spring Retainers
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52		Hydra-Oil
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64		Hydra-Oil
	H	17-4 PH Stainless Steel
65		Valve Material
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66		Valve Springs
	E	Elgiloy®
67		Valve Spring Retainers
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