

# MYERS® MODELS D SERIES High Pressure Reciprocating Pumps

## Proof Is In The Performance

Over a century of experience has proven that Pentair's line of Myers® reciprocating pumps are designed and built with performance you can rely on. The D Series high pressure reciprocating pumps perform under pressure for a long time. The D Series combines Pentair manufacturing expertise and understanding of applications to provide a pump that is perfect for every high pressure job.



### D35-12 Triplex

A high strength fluid end with spring-loaded flat valves for pumping large volumes of water under high pressures up to 1200 psi. Handles liquids up to 160°F in mines, mills, food processing and car/truck washes.

### D50-12 Triplex

This pump's high ratio of flow capacity to pressure provides top performance for any cleaning application (i.e. street cleaning), coal field spraying, or strata loosening. Slow operations speed for longer pump life and a built-in gear reduction give added benefits.

### D65-16 Triplex

This pump's large 65 gpm volume of flow up to 1600 psi makes it perfect for sewer blasting and heavy duty industrial and marine cleaning. The compact, powerful design is also right for strata loosening, long distance pumping in coal mines and oil fields.

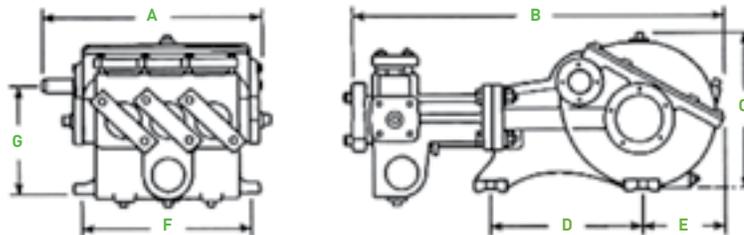
### D65-20 Triplex

This is a high-volume, high pressure piston pump for hydraulic blasting and cleaning, sewer cleaning, fire truck application, injection and hydrostatic testing. Built rugged for dependable service in many industrial high pressure applications.

### D60-10 Triplex

Designed for industrial, oil and gas fields, mining and marine applications, this pump's slow crankshaft speed reduces parts wear and energy use. Valve and piston assemblies are easily serviced through front/top openings. Specially effective for hull cleaning, barnacle removal, high pressure cleaning and sealing.

## Dimensional Data



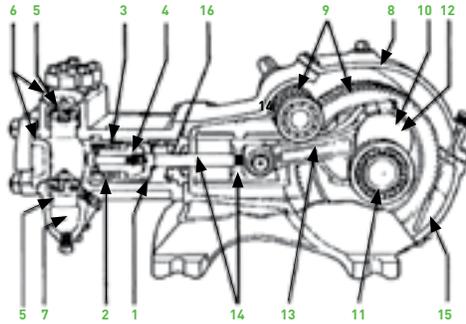
### Product Specifications

Catalog Number	Max. Rated Pressure (psi) (bar)	Max. Rated Capacity GPM (LPM)	Gear Reduct. Ratio	Temp. Rating °F (°C)	Sizes in inches (mm)						Weight lbs. (kg)	Dimensions in inches (mm)							
					Cylinder Bore	Piston Stroke	Suction Size (NPT)	Disch. Size (NPT)	Input Shaft	Keyway		A	B	C	D	E	F	G	Dia. of Mounting Hole
D35-12 Triplex	1200 (83)	35 (132.49)	3.39 to 1	160 (71)	2.000 (50.80)	2.875 (73.03)	2 (50.80)	1½ (31.75)	1½ (41.3)	¾ x ¾ (9.53 x 4.76)	410 (186)	19.5 (495.3)	31 (787.4)	13.25 (336.55)	12.5 (317.5)	7 (177.8)	14 (355.6)	9.5 (241.3)	.75 (19.05)
D50-12 Triplex	1200 (83)	50 (189.27)	3.95 to 1	140 (60)	2.250 (57.15)	3.750 (95.25)	3 (76.20)	1½ (31.75)	1½ (41.3)	¾ x ¾ (9.53 x 4.76)	525 (238)	21 (533.4)	34.5 (876.3)	15.25 (387.35)	14 (355.6)	7.5 (190.5)	16 (406.4)	10.38 (263.65)	.75 (19.05)
D60-10 Triplex	1000 (69)	60 (227.12)	3.95 to 1	140 (60)	2.500 (63.50)	3.750 (95.25)	3 (76.20)	1½ (31.75)	1½ (41.3)	¾ x ¾ (9.53 x 4.76)	525 (238)	21 (533.4)	34.5 (876.3)	17 (431.8)	14 (355.6)	7.5 (190.5)	16 (406.4)	10.38 (263.65)	.75 (19.05)
D65-16 Triplex	1600 (110)	65 (246.05)	3.95 to 1	160 (71)	2.125 (53.98)	3.750 (95.25)	3 (76.20)	1½ (31.75)	1½ (41.3)	¾ x ¾ (9.53 x 4.76)	525 (238)	21 (533.4)	36.25 (920.75)	17 (431.8)	14 (355.6)	7.5 (190.5)	16 (406.4)	10.38 (263.65)	.75 (19.05)
D65-20 Triplex	2000 (138)	65 (246.05)	3.95 to 1	160 (71)	2.000 (50.80)	3.750 (95.25)	3 (76.20)	1½ (31.75)	1½ (41.3)	¾ x ¾ (9.53 x 4.76)	525 (238)	21 (533.4)	36.25 (920.75)	17 (431.8)	14 (355.6)	7.5 (190.5)	16 (406.4)	10.38 (263.65)	.75 (19.05)

## Fluid-End Components

1. Cylinder body standard high-strength ductile iron or aluminum-bronze for salt water applications in D35 and D65 series.
2. Cylinders are tapered steel shells with smooth, hard coating. Easily replaceable.
3. Packing D35 and D65: Buna-N and cotton duck multi-lip V-ring supported by a phenolic follower (bronze on D65-20). D50 and D60: Buna-N and cotton duck cup supported by a ductile iron follower.
4. Piston assembly: Stud, pressure ring, spring, adjustment nut retainer and cap screw are all solid stainless steel.

5. Valve assemblies (two types depending on use). Spring-loaded flat valves have stainless steel seats, springs and valves with long-wearing bronze spring retainer and valve cage. Optional stainless steel center post-type features acetal valves. (Standard on D65-20)
6. Valve and cylinder caps of tough cast iron (D65 cylinder caps are steel) with Buna-N O-ring seals. Caps are rigidly held in place by removable steel clamps.
7. Suction and discharge located for easy service. Large threaded suction openings on sides and/or front. Discharge openings are flanged and tapped.



## Power-End Components

8. Gearcase of rugged cast iron protects the gears and serves as oil reservoir for continuous lubrication. Cover section quickly removable for easy service.
9. Pinion and main gear are helical cut and machined from high-strength alloy steel, and can rotate in either direction. Integral pinion shaft is also machined from high-strength alloy steel.
10. Automotive-type crankshaft is forged from alloy steel.
11. Shaft bearings feature tapered roller bearings.
12. Crankshaft journal bearings are automotive-type, steel-backed inserts.
13. Connecting links are cast iron (D35) or ductile iron with replaceable bronze wrist-pin bearings.
14. Crossheads/piston pony rods are heavy-duty ductile iron and are smoothly ground and polished stainless steel, threaded and pinned.
15. Continuous splash lubrication is provided during either direction of rotation.

## Horsepower Requirements

		D35-12 Horsepower Required For:			
GPM	RPM	600 psi	800 psi	1000 psi	1200 psi
28.5	825	11.8	15.7	19.6	23.5
32	925	13.2	17.6	22	26.4
35.5	1025	14.6	19.5	24.3	29.2
37.2	1075	15.3	20.4	25.5	30.6

		D65-16 Horsepower Required For:			
GPM	RPM	1000 psi	1200 psi	1400 psi	1600 psi
48.6	1112	33.4	40	46.7	53.4
54.5	1247	37.4	44.9	52.4	59.8
63.2	1446	43.4	52	60.7	69.4
65.1	1490	44.7	53.6	62.6	71.5
68.6	1570	47.1	56.5	65.9	75.3

		D50-12 Horsepower Required For:				
GPM	RPM	400 psi	600 psi	800 psi	1000 psi	1200 psi
40.4	825	11.1	16.6	22.2	27.7	33.3
45.3	925	12.4	18.7	24.9	31.1	37.3
50.2	1025	13.8	20.7	27.6	34.5	41.4
52.7	1075	14.5	21.7	28.9	36.2	43.4

		D65-20 Horsepower Required For:				
GPM	RPM	1000 psi	1200 psi	1600 psi	1800 psi	2000 psi
38.7	1000	26.6	31.9	42.5	47.8	53.1
46.4	1200	31.9	38.2	51	57.4	63.7
54.2	1400	37.2	44.6	59.5	66.9	74.4
61.9	1600	42.5	51	68	76.5	85
69.7	1800	47.8	57.4	76.5	86.1	95.6

		D60-10 Horsepower Required For:			
GPM	RPM	400 psi	600 psi	800 psi	1000 psi
49.9	825	13.7	20.6	27.4	34.3
56	925	15.4	23	30.7	38.4
62	1025	17	25.5	34	42.6
65	1075	17.9	26.8	35.7	44.6

## Kilowatt Requirements

		D35-12 Kilowatts Required For:			
LPM	RPM	41 bar	55 bar	69 bar	83 bar
108.1	825	8.8	11.7	14.6	17.5
121.2	925	9.8	13.1	16.4	19.7
134.3	1025	10.9	14.5	18.2	21.8
140.8	1075	11.4	15.2	19	22.8

		D65-16 Kilowatts Required For:			
LPM	RPM	69 bar	83 bar	97 bar	110 bar
184	1112	24.9	29.8	34.8	39.8
206.3	1247	27.9	33.5	39	44.6
239.2	1446	32.3	38.8	45.3	51.7
246.5	1490	33.3	40	46.7	53.3
259.8	1570	35.1	42.1	49.2	56.2

		D50-12 Kilowatts Required For:				
LPM	RPM	28 bar	41 bar	55 bar	69 bar	83 bar
153	825	8.3	12.4	16.6	20.7	24.8
171.6	925	9.3	13.9	18.6	23.2	27.8
190.2	1025	10.3	15.4	20.6	25.7	30.8
199.4	1075	10.8	16.2	21.6	27	32.4

		D65-20 Kilowatts Required For:				
LPM	RPM	69 bar	83 bar	110 bar	124 bar	138 bar
146.5	1000	19.8	23.8	31.7	35.7	39.6
175.8	1200	23.8	28.5	38	42.8	47.5
205.1	1400	27.7	33.3	44.4	49.9	55.5
234.4	1600	31.7	38	50.7	57	63.4
263.7	1800	35.7	42.8	57	64.2	71.3

		D60-10 Kilowatts Required For:			
LPM	RPM	28 bar	41 bar	55 bar	69 bar
189	825	10.2	15.3	20.4	25.5
211.9	925	11.5	17.2	22.9	28.6
234.8	1025	12.7	19	25.4	31.7
246.2	1075	13.3	20	26.6	33.3

Power is based on 85% mechanical efficiency.  
Displacement is based on 100% volumetric efficiency.



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