

# DIRECT-DRIVE BELL HOUSINGS



## Cat Pumps Bell Housing Products

Cat Pumps bell housings offer a fast and convenient option for mounting high-pressure pumps to electric motors. By expanding motor selection with 6-pole motors, direct-drive configurations now include several of our larger 15-frame pumps. Bell Housings sized up to 286TC are available for pump configurations including brass, nickel aluminum bronze or 316 stainless steel manifolds, with flow rates up to 19.3 gpm and pressures up to 5,600 psi. Bell housings are available as individual components or assembled as a complete pump/motor assembly. Take advantage of the convenience of direct-drive pumps with off-the-shelf delivery from Cat Pumps.

### Features

- Optimal alignment reduces side-loading for longer life, trouble-free operation
- Compact direct mounting reduces space requirement
- Available for 1180 and 1750 rpm motors
- Cast from lightweight, high-strength aluminum alloy
- Ease of assembly reduces fabrication costs
- Slotted housing allows easy access to coupler set screws
- Available as a complete drive package for convenient system assembly

### Applications

- Pressure Washers
- Car Wash
  - Self-Serve
  - Dual-Gun Prep Stations
  - Automatic Units
- Industrial High-Pressure Power Units
- Washdown Systems
- Salt Water Desalination/SWRO
- Misting/Cooling/Fogging System

See our complete line of bell housings and other accessories at [www.catpumps.com](http://www.catpumps.com)

# Pump Selector

## Brass

PUMP MODEL	GPM	PSI (MAX)	RPM		HP (AT MAX PSI)
			1180	1750	
5CP4110CSS	2.2	4000		•	6.0
3CP1130	2.4	2000		•	3.3
5CP3105CSS	2.5	3500		•	6.0
5CP4112CSS	2.7	4000		•	7.4
740	2.9	5000		•	9.9
5CP4114CSS	3.2	4000		•	8.8
3CP1140	3.6	2200		•	5.4
5CP3110CSS	3.6	3500		•	8.6
760	3.6	5000		•	12.3
5CP4116CSS	3.8	4000		•	10.4
5CP2140WCS	4.0	2500		•	6.8
3CP1120	4.2	2200		•	6.3
5CP4118CSS	4.2	4000		•	11.5
5CP3160CSS	4.3	3500		•	10.3
5CP4120CSS	4.5	4000		•	12.3
60	4.7	4000		•	12.9
700	4.7	5000		•	16.1
5CP3120CSS	4.8	3000		•	9.9
5CP2150W	5.0	2000		•	6.8
5CP3150CSS	5.2	3000		•	10.7
1570	5.2	5600*	•		20.0
5CP5120	6.0	2500		•	10.3
5CP5140CSS	6.4	3000		•	13.8
5CP6120	7.4	1200		•	6.1
56	8.0	2500		•	13.7
56HS	8.0	3000		•	16.4
5CP6180CSS	8.2	1500		•	8.4
660	8.3	3000	•		17.0
1560	8.3	3500*	•		20.0
5CP6190	10.0	1200		•	8.2
7CP6110CS	10.5	2000		•	14.4
7CP6160CS	10.6	2500		•	18.2
1580	12	2425*	•		20.0
1050	12.3	1800	•		15.2
1530	12.7	1500	•		13.0
1730	15.8	1500		•	16.2
1540E	19.3	1200	•		15.9

\*Maximum pressure with a 20 HP motor. Contact Cat Pumps if higher pressure is required.

## 316 Stainless Steel

PUMP MODEL	GPM	PSI (MAX)	RPM		HP (AT MAX PSI)
			1180	1750	
3CP1231	2.3	2000		•	3.2
784	2.9	5000		•	9.9
3CP1241	3.6	2000		•	4.9
786	3.6	5000		•	12.3
5CPQ6241CS	4.0	2000		•	5.5
3CP1221	4.2	2000		•	5.8
781	4.7	5000		•	16.1
5CPQ6251	5.0	2000		•	6.8
5CPQ6281CSS	5.5	2000		•	7.5
5CPQ6271CSS	6.6	1800		•	8.1
5CPQ6221	7.4	1200		•	6.1
661D	8.3	3000	•		17
7CP6111CS	10.5	2000		•	14.4
1051	12.3	1800	•		15.2
1531	12.7	1500	•		13
1731	15.8	1500		•	16.2
1541	19.3	1200	•		15.9

## Nickel Aluminum Bronze

PUMP MODEL	GPM	PSI (MAX)	RPM		HP (AT MAX PSI)
			1180	1750	
237	2.3	1500		•	2.4
247	3.6	1200		•	3.0
347	4.0	1800		•	4.9
277	4.2	1000		•	2.8
357	5.0	1500		•	5.1
1057	12.3	1800	•		15.2



7CP6111CS  
with Bell Housing and Motor



## Manifold Materials

From pressure washers to salt water reverse osmosis to chemical injection and everything in between, Cat Pumps has the pump configuration to match the application. Manifolds are available in **Brass, Nickel Aluminum Bronze, and Stainless Steel**, with several seal configuration options including NBR, EPDM, FPM, PTFE.

# Mounting Components

## Bell Housing Assembly

PUMP SERIES	MODELS	MOTOR FRAME	BELL HOUSING ASSEMBLY
3CP	All 3CP Models	56C-145TC	76056.3CP
		182/184TC	76184.3CP
		213/215TC	76215.3CP
3FR	All 3FR Plunger Models	56C-145TC	76056.3FR
		182/184TC	76184.3FR
		213/215TC	76215.3FR
5CP	All 5CP Models (except 5CP2120W)	56C-145TC	76056.5CP
		182/184TC	76184.5CP
		213/215TC	76215.5CP
		254/256TC	76256.5CP
5FR	All 5FR Models (Except 310)	56C-145TC	76056.5FR
		182/184TC	76184.5FR
		213/215TC	76215.5FR
7CP	All 7CP Models	182/184TC	76184.7CP
		213/215TC	76215.7CP
		254/256TC	76256.7CP
7FR/8FR	56, 56HS, 60, 700, 740, 760, 781, 784, 786	284/286TC	76286.7CP
		182/184TC	76184.7FR
		213/215TC	76215.7FR
		254/256TC	76256.7FR
15FR	All 15FR Models	284/286TC	76286.7FR
		213/215TC	76215.15FR
		254/256TC	76256.15FR
		284/286TC	76286.15FR

## Flexible Coupler Assembly

PUMP SERIES	MOTOR FRAME	FLEX COUPLER ASSY	SHAFT TO SHAFT	TORQUE (FT-LBS)
3CP & 3FR	56C	8215	16.5mm x 5/8"	27
	145TC	8210	16.5mm x 7/8"	27
	182/184TC	8220	16.5mm x 1 1/8"	27
5CP & 5FR	182/184TC	8225	16.5mm x 1 1/8"	74
	213/215TC	8270	16.5mm x 1 3/8"	92
	254/256TC	8217	20mm x 5/8"	74
7CP & 7FR	145TC	8260	20mm x 7/8"	74
	182/184TC	8230	20mm x 1 1/8"	74
	213/215TC	8275	20mm x 1 3/8"	92
	245/256TC	8217	20mm x 1 5/8"	150
15FR	182/184TC	8370	24mm x 1 1/8"	74
	213/215TC	8375	24mm x 1 3/8"	74
	254/256TC	8380	24mm x 1 5/8"	74
15FR	284/286TC	8389	24mm x 1 7/8"	150
	213/215TC	8388	30mm x 1 3/8"	150
	254/256TC	8382	30mm x 1 5/8"	150
	284/286TC	8383	30mm x 1 7/8"	225



# Motors

## 1750 RPM Motors

MOTOR	HORSE POWER	FRAME	SHAFT
899302	3	182TC	1 1/8"
996543	5	184TC	1 1/8"
999436	7.5	213TC	1 3/8"
999377	10	215TC	1 3/8"
994001	15	254TC	1 5/8"
997645	20	256TC	1 5/8"

## 1180 RPM Motors

MOTOR	HORSE POWER	FRAME	SHAFT
994274	5	215TC	1 3/8"
994975	7.5	254TC	1 5/8"
994910	10	256TC	1 5/8"
994915	15	284TC	1 7/8"
994920	20	286TC	1 7/8"

## Common Motor Specifications

PHASE	3
VOLTAGE	(208-230/460)
FREQUENCY (Hz)	60
ENCLOSURE	TEFC
MANUFACTURER	WEG
SERIES	W22

Contact [techsupport@catpumps.com](mailto:techsupport@catpumps.com) for more motor options.



"C" face motors up to 20 HP are available to fit a variety of pumping solutions.

# Custom Engineered Power Units

**You define. We design.**

Cat Pumps also offers custom engineered systems (power units) that are designed to meet your requirements. All units are factory flow and pressure tested before shipment. Complete our Power Unit Quote Form online or call for a quote.

## Design Features:

- Electric, gas, diesel, hydraulic and pneumatic drive options
- Heavy-duty construction
- Compact, streamline design
- Various control options to meet application needs
- Stationary or portable design
- Corrosion-resistant options
- System accessories



# System Accessories

## Maximum System Performance

Cat Pumps offers a wide range of accessories that meet the same exacting standards as its pumps. A pumping system's performance is as good as its weakest component, which is why accessory components are rigorously tested and evaluated. The goal is to provide the best system value by offering pumps and accessories that exceed performance and reliability expectations. Cat Pumps products offer the lowest possible life cycle cost.

## Products:

- Pressure Controls
- Shut-Off Guns
- Nozzles
- Pressure Gauges
- Pressure Switches
- Throttle Controllers
- Pop-Off/Relief Valves
- Lances/Wands
- Pulsation Dampeners
- Inlet Filters
- Thermal Valves
- Mag-Jet and Pulsator Valve Assemblies



Contact Cat Pumps for more information at [info@catpumps.com](mailto:info@catpumps.com) or (763) 780-5440



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