



Experts in water.

DAVEY

APPLICATIONS

- Water Supply
- Industry
- Environmental
- Leisure
- Building Services
- Pumped Liquids

WHY CHOOSE Davey ISOspec® Heavy Duty End Suction Centrifugal Pumps?

Davey ISOspec® pumps are designed in accordance with international standard ISO2858, which means ISOspec® pumps are interchangeable with other similar pumps that conform to the same standard.

- **Bronze wear rings** - fitted as standard, replaceable front & rear wear rings with optional materials (316SS, etc.), for a trouble-free lifecycle
- **Bronze impeller** - closed face design is fitted as standard to prevent corrosion in stationary or inactive situations. Cast 316SS are available on request. The use of 3-D solid model (CAD) Computer Aided Design and (CFD) Computational Fluid Dynamics ensures **high efficiencies**, reducing overall running costs. Impeller diameters can be trimmed to suit specified performance. ISOspec® impellers are dynamically balanced, providing smooth, vibration free operation, for extended premature bearing life
- **Pump casing** - highly efficient cast iron volute casings, with flanges rated to PN1.6MPa (16bar), drilled to AS2129, Table E. Material options: Ductile Iron, Cast 316SS or 2205SS
- **Casing o-ring** - re-usable o-rings in Nitrile for ease of re-assembly (optional viton available)
- **Shaft seal** - single, high quality mechanical seal with **carbon vs ceramic** fitted as standard to all ISOspec® Series pumps with other options such as Silicone vs Silicone or high temp also available
- **Tappings** - convenient suction & discharge pressure gauge tappings plus volute drain, fitted as standard to all ISOspec® pumps
- **Back pull-out design** - allowing for easy removal of rotating element without disturbing the pipework, lagging or pump volute casing. This is proven to reduce downtime whilst performing routine maintenance
- **CM Series adaptor housing** - heavy duty, flanged to IEC accepting AS 1359 standard frame flanged motors



ISOspec® **DAVEY** CF & CM Series

Davey ISOspec® CF (bareshaft) & CM (motorpump) pumps are large industrial pumps suitable for large scale applications such as commercial irrigation, municipal water supply, commercial fountains, dust suppression, commercial pools, air conditioning systems and the like.



- **Enlarged shaft** - reduces shaft deflection. Standard in 420SS & 316SS as an option. Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation (CF Series only)
- **Stub shaft** - standard in 316SS, attached via a heavy duty muff coupling assembly. Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation (CM Series only)
- **CF Bearings** - Heavy duty SKF or approved equivalent, greased for life, reducing maintenance. Protected by a quality manufactured lip seal reducing ingress of moisture or foreign matter. Housed within removable bearing cap cover assembly (CF Series only)
- **CF Series bearing housing** - Robust / heavy duty, manufactured in high strength cast iron providing trouble-free life cycle
- **CM Series Motors** - All motors are MEPS compliant ensuring minimum efficiency requirements to AS/NZS 1359.5.2004. IP55, TEFC (totally enclosed fan cooled), insulation class F, temperature rise class B, 415V, 50Hz. Other voltages available upon request

Suitable Applications

Water Supply

Commercial irrigation, booster stations, municipal water supply, flood irrigation, general transfer.

Industry

Cooling tower transfer, refrigeration systems, commercial fountains, condensate recovery, dairy wash down packages.

Environmental

Dust suppression in mining & quarry applications, fume scrubbers for odour control, water treatment transfer & filtration.

Leisure

Water circulation in large aquatic centres, backwash filtration in commercial pools, water features & commercial fountains.

Building Services

Commercial heating, air conditioning systems, pressure boosting, cooling tower & fire service applications.

Pumped Liquids

Non aggressive & non combustible liquids. Clean low viscous liquids free of fibres or particles.

OPERATING CONDITIONS	CF SERIES	CM SERIES
Maximum flow	900m ³ /hr	375m ³ /hr
Maximum total heads	160m	160m
Liquid temperature*	-15 to 140°C	-15 to 140°C
Operating pressure (Casing)	16 Bar	16 Bar

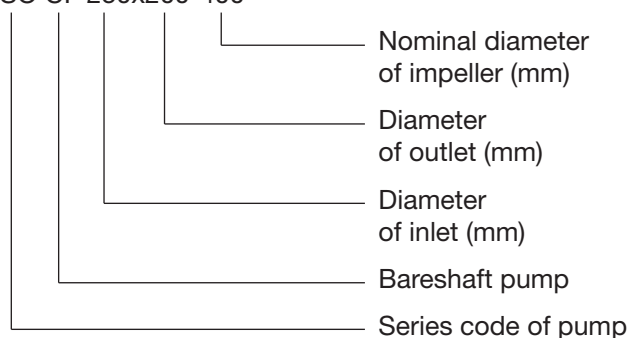
* With optional high temperature seal.

CONSTRUCTION - CF			
	Body	Impeller	Shaft
B Suffix	Cast Iron	Bronze	Stainless Steel 420
J Suffix	Cast Iron	Stainless Steel 316	Stainless Steel 420
JJ Suffix	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316

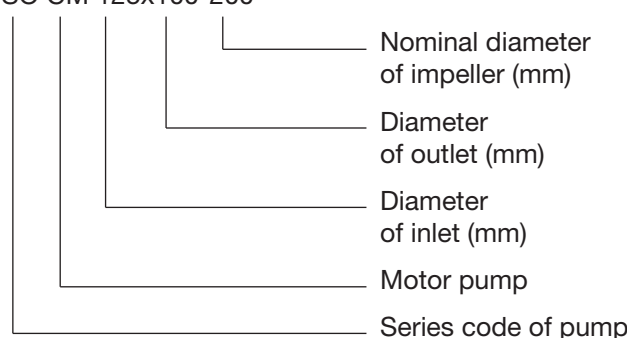
CONSTRUCTION - CM			
	Body	Impeller	Shaft
B Suffix	Cast Iron	Bronze	Stainless Steel 316
J Suffix	Cast Iron	Stainless Steel 316	Stainless Steel 316
JJ Suffix	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316

Model Designation (Examples)

ISO CF 250x200-400



ISO CM 125x100-200



Dulux Armourspray® VC Gloss

- Ideal to provide protection for ISOspec pumps in commercial swimming pool applications
- Exceptionally tough film provides excellent corrosion resistance
- High chemical resistance is suitable for many applications
- Fusion bonded epoxy powder coating ensures excellent coverage of protected metal
- No solvents or emissions means less waste and pollution to the environment

TYPE	DESCRIPTION	ISOspec MODULE
M1A	Dulux Armourspray® VC Gloss	Suits ISOspec® pumps built with Module 1
M2A	Dulux Armourspray® VC Gloss	Suits ISOspec® pumps built with Module 2
M3A	Dulux Armourspray® VC Gloss	Suits ISOspec® pumps built with Module 3

