



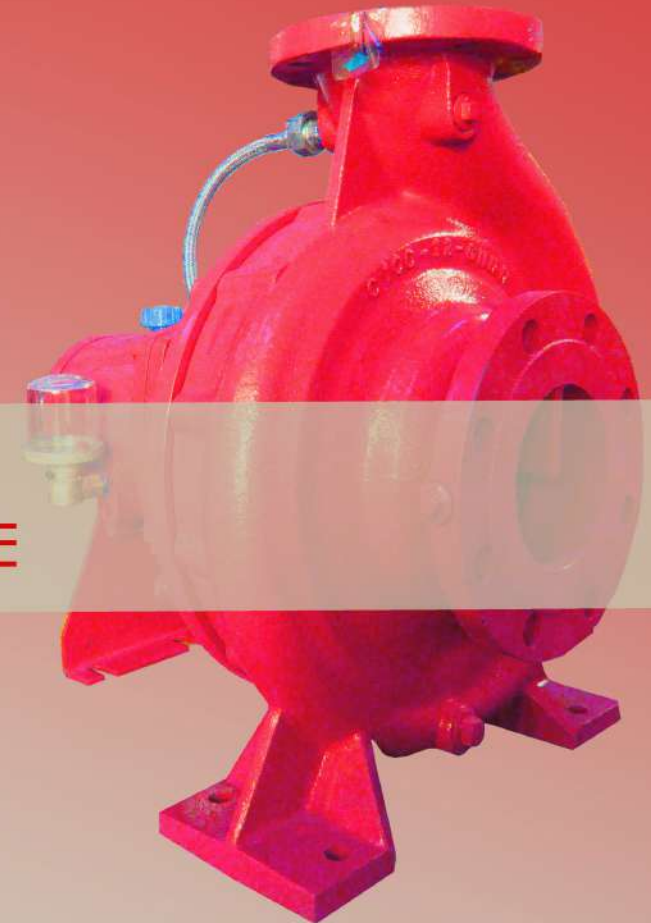
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**Model
CEN, CPC, CPR,
CAM, CDM**

Torishima - Fire Pumps

**FIRE PUMP
CATALOGUE**



PT TORISHIMA GUNA INDONESIA

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FOREWORD

Fire hydrant pump used to protect lives and properties against fire by supplying an adequate water supply to automatic sprinklers or standpipe system, meet building codes (such as NFPA 20) and insurances requirement. The pump should operate irrespective of any damage it may cause to itself and must be capable to operate not less than 150% of rated capacity at not less than 65% of total rated head.

Fire hydrant pump can be motor driven or diesel driven or even both on parallel configuration. TORISHIMA end-suction heavy duty process pump is most obvious choice for such requirement.

WHY CHOOSE US?

As an ISO 9001 registered company, TORISHIMA are committed to quality. Along with our outstanding customer service, TORISHIMA will keep your fire pump system at peak performance to years to come.

with good performance and material, we provide solutions for fire fighting pump systems according to your needs.

TORISHIMA FIRE PUMP

Torishima fire pumps with appropriate fittings for providing water supply to fire protection systems in buildings, plants, and yards,

FEATURES

Non overload design to ensure stable performance for all applications.

Corrosion resistant materials used on the rotating parts.

Hydraulically balanced impeller extends bearing life and assures smoother operation.

Fully compliance to NFPA-20

APPLICATION

- Electric Fire Pump
- Diesel Fire Pump

COMPETITIVE ADVANTAGES

Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating elements to be removed without disconnecting suction and discharge pipe work.

Top centreline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads.

Flow rate capacity 500 up to 3000 USGPM

Working pressure up to 250 psi with 300 lb. ANSI Flanges.

TORISHIMA

TORISHIMA GUNA INDONESIA have a comprehensive understanding of Fire Fighting technical requirements and applications for pumps and pumping system.

TORISHIMA GUNA INDONESIA SUPPORTS NATIONAL INDUSTRY IN MANY WAYS:

- Engineering support for design and planning.
- New construction projects for fire fighting pumping applications, upgrades and obsolescence replacement
- Attendance on-site to oversee installations and to commission equipment
- Technical assistance for any kind of pump technical issue on-site



TORISHIMA FIRE PUMP

PRODUCT FEATURES

Design

Non Overload design to ensure stable performance for all applications

Installation

Axially split casing allows the easy removal of the top casing for inspection and service

Equipment

Elastic coupling with misalignment compensator for electric pump and universal coupling

Power Supply

Non-listed of engine driver, wide range of power 73kW - 295 kW, available with electric motor and diesel engine

Maintenance

Safe and easy installation and maintenance

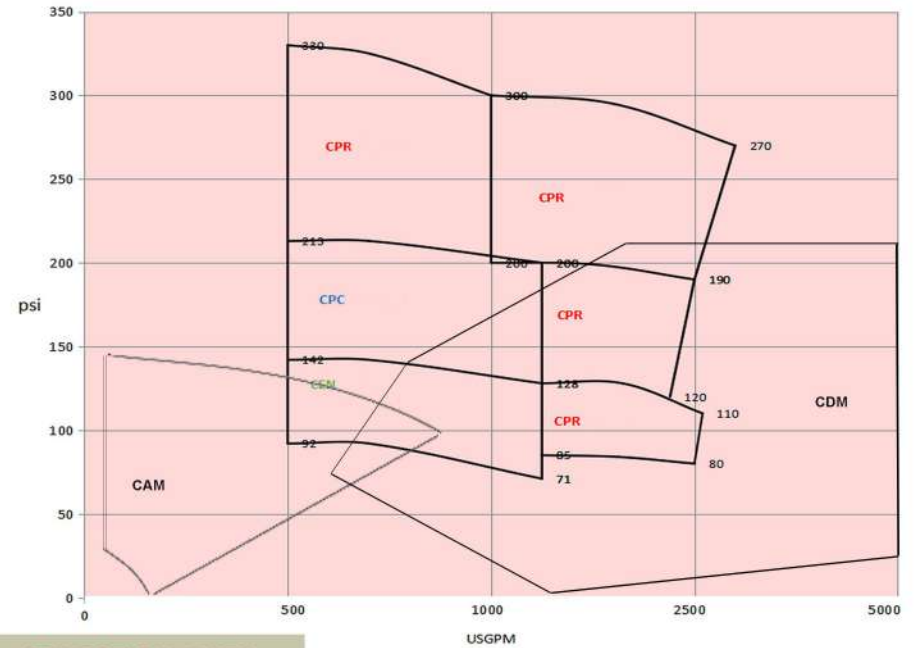
Versality

Product configurations available on request, depending on installation conditions



We have strictly selected the pumps that are used for fire fighting applications compliance to NFPA 20 standard

SELECTION CHART



CEN

Q range : 500 - 1125 USGPM
H max : 145 PSI
Speed : 2900 RPM
Pressure : up to 10 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing

CPC

Q range : 500 - 1125 USGPM
H max : 200 PSI
Speed : 3000 RPM
Pressure : up to 16 (25) bar
Casing : Cast Iron
Impeller : Iron / FCD
Shaft : Stainless Steel
Seal : Gland Packing

CPR

Q range : 500 - 3000 USGPM
H max : 320 PSI
Speed : 3000 RPM
Pressure : up to 40 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing

CAM

Q range : 1320 - 5200 USGPM
H max : 120 PSI
Speed : 1500 RPM
Pressure : up to 10 bar
Casing : Cast Iron
Impeller : Iron
Shaft : Stainless Steel
Seal : Gland Packing

CDM

Q range : 660 - 13208 USGPM
H max : 200 PSI
Speed : 1500 RPM
Pressure : up to 22 bar
Casing : Cast Iron
Impeller : Iron, Bronze
Shaft : Stainless Steel
Seal : Gland Packing



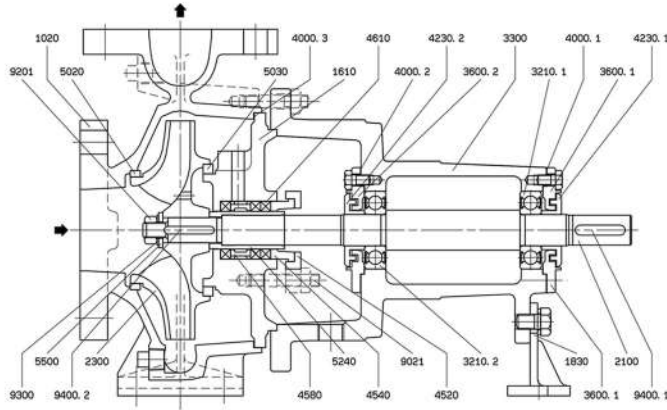
SELECTION DATA

Type	Size	Flow Rate (USGPM)	Size		Rated Net Pressure Range		Approximate Speed	Power
			Inlet, inch	Outlet, inch	Min	Max		
							Psi	
CDM	200x150	500	8	6	40	60	1000	30
		750						40
	250x150	1000	10	6	110	160	1500	132
		1250						180
		1500						210
350x250	2000	14	10	170	200	1000	350	
	2500						180	
	3000						320	
CPC	100-32G	750	5	4	140	200	3000	125
CPR	150-250	1000	8	6	90	130	3000	110
		1250						200
	200-400	1500	10	8	270	320	3000	420
		2000						520
CEN	125x100-250	500	5	4	95	145	2900	65
CAM	150-390	1000	8	6	40	90	1500	70
		1250						125
	200-390	1500	10	8	80	120	1500	150
		2000						120

TORISHIMA FIRE PUMP

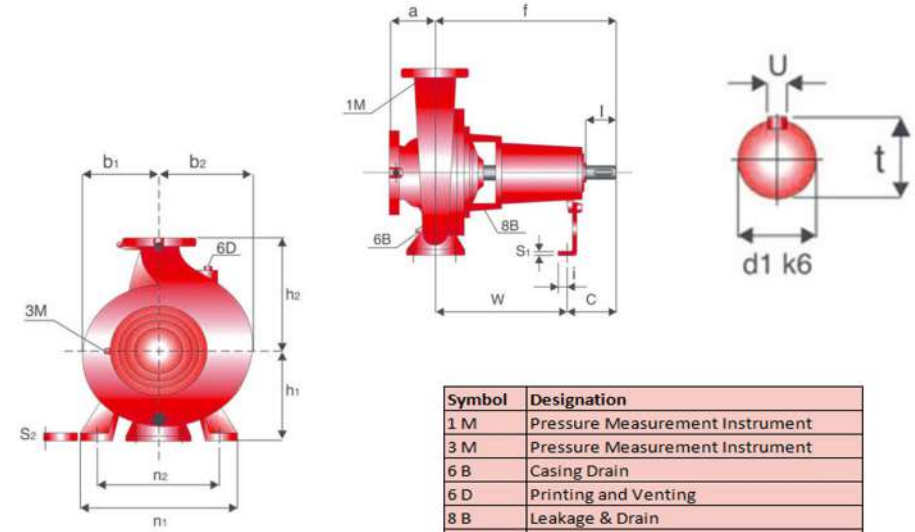
SECTIONAL VIEW

End Suction Pump



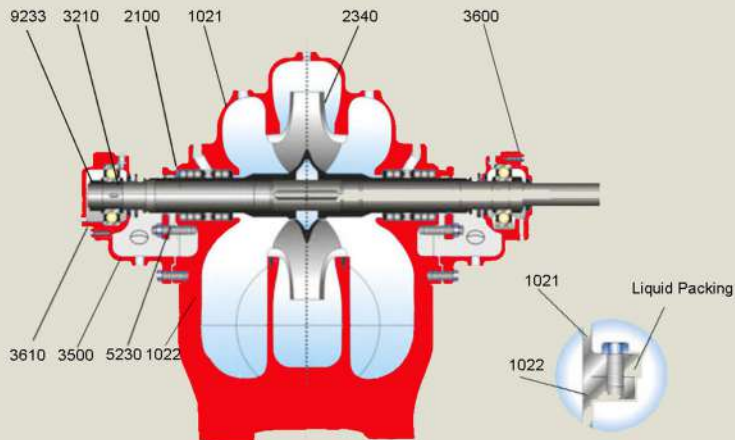
PART NO.	DESIGNATION
1020	Volute Casing
1610	Casing Cover
1830	Support Foot
2100	Shaft
2300	Impeller
3210.1	Ball Bearing
3210.2	Ball Bearing
3300	Bearing Housing
3600.1	Bearing Cover
3600.2	Bearing Cover
4000.1	Flat Gasket
4000.2	Flat Gasket
4000.3	Flat Gasket
4230.1	Labyrinth Ring
4230.2	Labyrinth Ring
4520	Gland
4540	Gland Bush
4580	Latern Ring
4610	Gland Packing
5020	Casing Wearing
5030	Impeller Wearing
5240	Shaft Protecting Sleeve
5500	Washer Impeller
9021	Gland Bolt
9201	Fine Hexagonal Nut
9300	Spring Washer
9400.1	Key
9400.2	Key**

OUTLINE DRAWING



Symbol	Designation
1 M	Pressure Measurement Instrument
3 M	Pressure Measurement Instrument
6 B	Casing Drain
6 D	Printing and Venting
8 B	Leakage & Drain
10 E	Sealing Liquid Inlet
11 E	Flushing Liquid Inlet

Double Suction Pump



PART NO.	DESIGNATION
1021	Volute Casing, Upper Half
1022	Volute Casing, Lower Half
2100	Shaft
2340	Impeller
3210	Ball Bearing
3500	Bearing Bracket
3600	Bearing Cover
3610	End Cover
5230	Shaft Sleeve
9233	Hard Lock Nut'

*typical drawing only