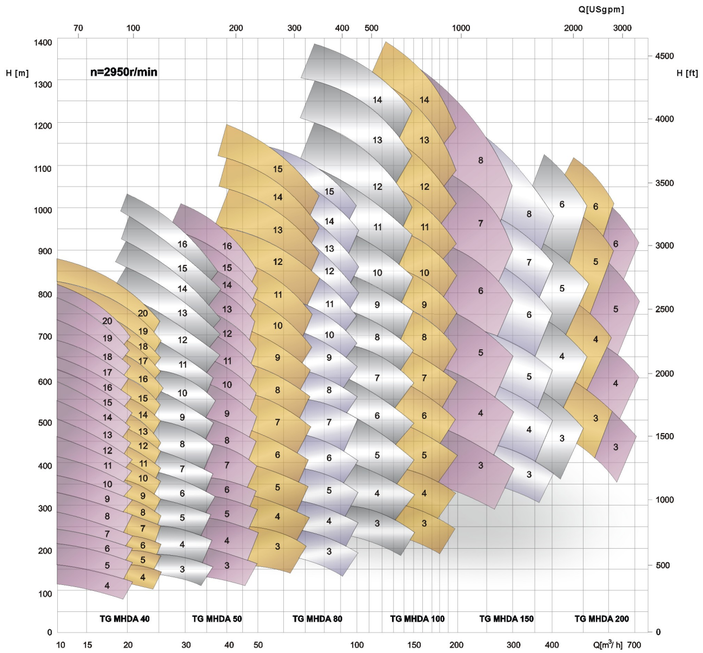
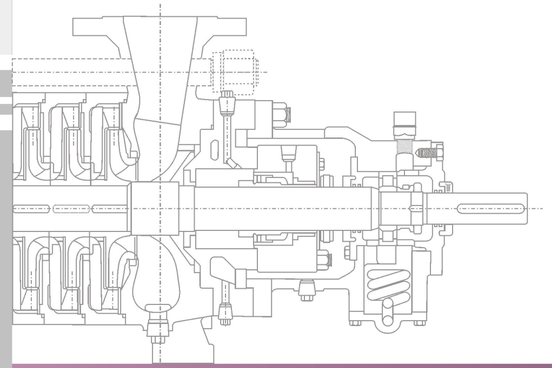
SELECTION CHART

50 Hz



** Other performance charts are available at different speed.*

04/10



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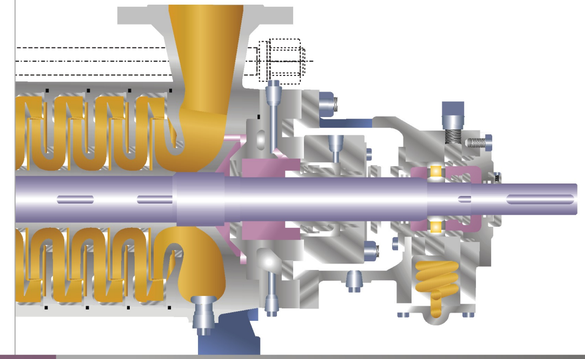
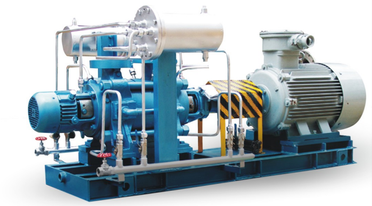
TG MHDA



Radially Split Multistage Between Bearing Pump API 610 10th Ed BB4 Type

GENERAL

TG MHDA series centrifugal pump is horizontal single casing and multistage ; casing is supported by foot or centerline, which is applied in Petroleum Industry, Petrochemical Industry, Power Station. Designed according to API 610 10th Ed (BB4 Type).



OPERATING RANGE

Capacity	Q	Up to 500 m^3/ hr	(2200 usgpm)
Total head	H	Up to 1,200 m	(3900 feet)
Temperature	T	- 80 to 180 °C	(- 110 to 350 °F)
Discharge Pressure	PN	Up to 15 MPa	(2170 psi)
Nominal Bore	DN	From 40 to 200 mm	(1.5 to 8 inch)

DESIGN

The pump is radial split sectional construction. In general, the discharge nozzle is upward, and the suction one is rightward (viewed from driver end). The location for discharge and suction nozzle is changeable, and it is allowed to have other drain pile.

There are two varying impellers and diffusers for each size, so the efficiency area is large. The renewable ring provides a sealing function between the impeller and casing.

The axial thrust which is produced by each impeller is balanced by balancing device. For example, to balance the axial thrust by balancing drum, the residual one is stood by bearing.

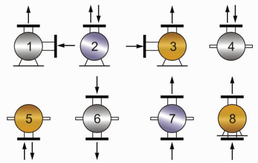
The bearing is radial roller type ; residual axial thrust is balanced by centripetal thrust ball bearing, providing oil and grease lubrication.

The shaft seal could use packing or mechanical seal, which one is chosen by order. The motor drives directly through coupling. Rotation direction is CCW viewed from driver end.

Power Station

TG MHDA
Radially Split Multistage Between Bearing Pump
API 610 10th Ed (BB4 Type)

POSITION OF INLET & OUTLET



TYPE	POSITION OF INLET & OUTLET								
	1	2	3	4	5	6	7	8	2 fit for 4 stages above
TG MHDA 40 TG MHDA 50	●	●	●						2 for 4 stages or 2,4,5 fit for 4 stages above
TG MHDA 80 TG MHDA 100	●	●	●	●	●	●	●		2,4,5 for 4 stages or 2,4,5 fit for 3 stages above
TG MHDA 150	●	●	●	●		●	●	●	2,4,5 for 3 stages.

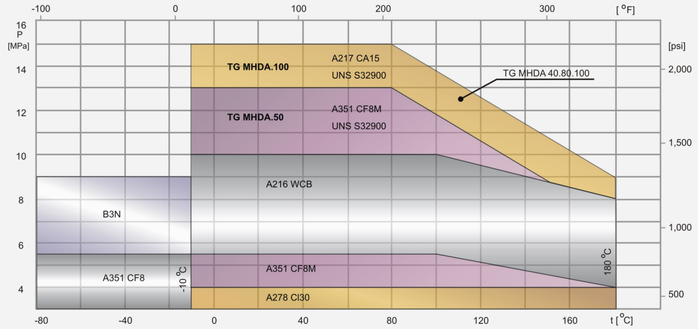
● Position of Inlet & Outlet Nozzle Viewed from Driving End ● Possible Inlet & Outlet Position

Suction and dicharge nozzle orientation viewed from driver end

FLANGE

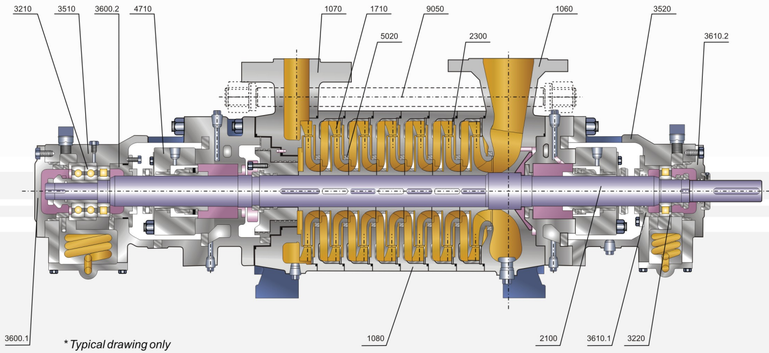
In accordance with ANSI 300 lb or 600 lb. Other standards are available by request

DIAGRAM OF PRESSURE & TEMPERATURE



TG MHDA
Radially Split Multistage Between Bearing Pump
API 610 10th Ed (BB4 Type)

SECTIONAL DRAWING



** Typical drawing only*

1060	: Suction Casing	3210	: Ball Bearing	3610.1	: Bearing Cover
1070	: Discharge Casing	3220	: Roller Bearing	3610.2	: Bearing Cover
1080	: Stage Casing	3510	: Bearing Bracket	4710	: Sealing Cover
1710	: Diffuser	3520	: Bearing Bracket	5020	: Casing Wear Ring
2100	: Shaft	3600.1	: Bearing Cover	9050	: Tie Bolt
2300	: Impeller	3600.2	: Bearing Cover		