

**NEW!**

**Staffa**

# **HPC400**

## **4-Speed Radial Piston Motor**



### **Key Features:**

**Rugged, proven design**

**Rated output torque of 25,000Nm**

**Smooth operation at low speed**

**Dynamic displacement change**

## Introduction:

The HPC400 motor is designed to meet the needs of maritime equipment manufacturers in the 21st century.

### 4-Speed Motor

The HPC400 motor has two eccentric drums which can be independently moved from high displacement to low displacement via dual CETOP3 interfaces.

### High Power Capability

As part of the Staffa HPC range of motors, the HPC400 boasts a peak shaft power rating of 430kW and a rated torque of 100Nm/bar. It also features the same high starting efficiencies, back pressure capabilities and dynamic displacement changes of the HPC range.

For further information on the range of Staffa HPC motors, see data sheet M-1003.



## Displacement Combinations:

Speed	Front Drum	Rear Drum	Displacement Code							
			400/10		400/20		400/75		390/00	
			cu.in./rev	cc/rev	cu.in./rev2	cc/rev3	cu.in./rev4	cc/rev5	cu.in./rev6	cc/rev7
Speed 1	HD	HD	400	6555	400	6555	400	6555	390	6391
Speed 2	LD	HD	205	3359	210	3441	270	4425	195	3195
Speed 3	HD	LD	205	3359	210	3441	205	3359	195	3195
Speed 4	LD	LD	10	164	20	328	75	1229	0	0

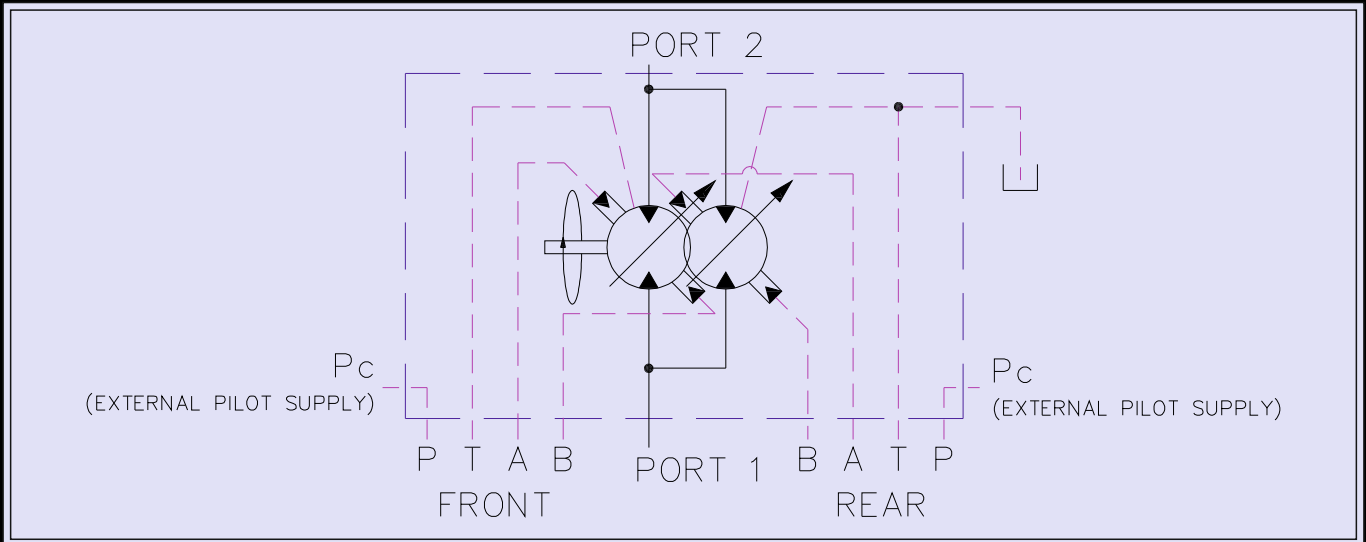
*HD = High Displacement, LD = Low Displacement*

## Performance Data:

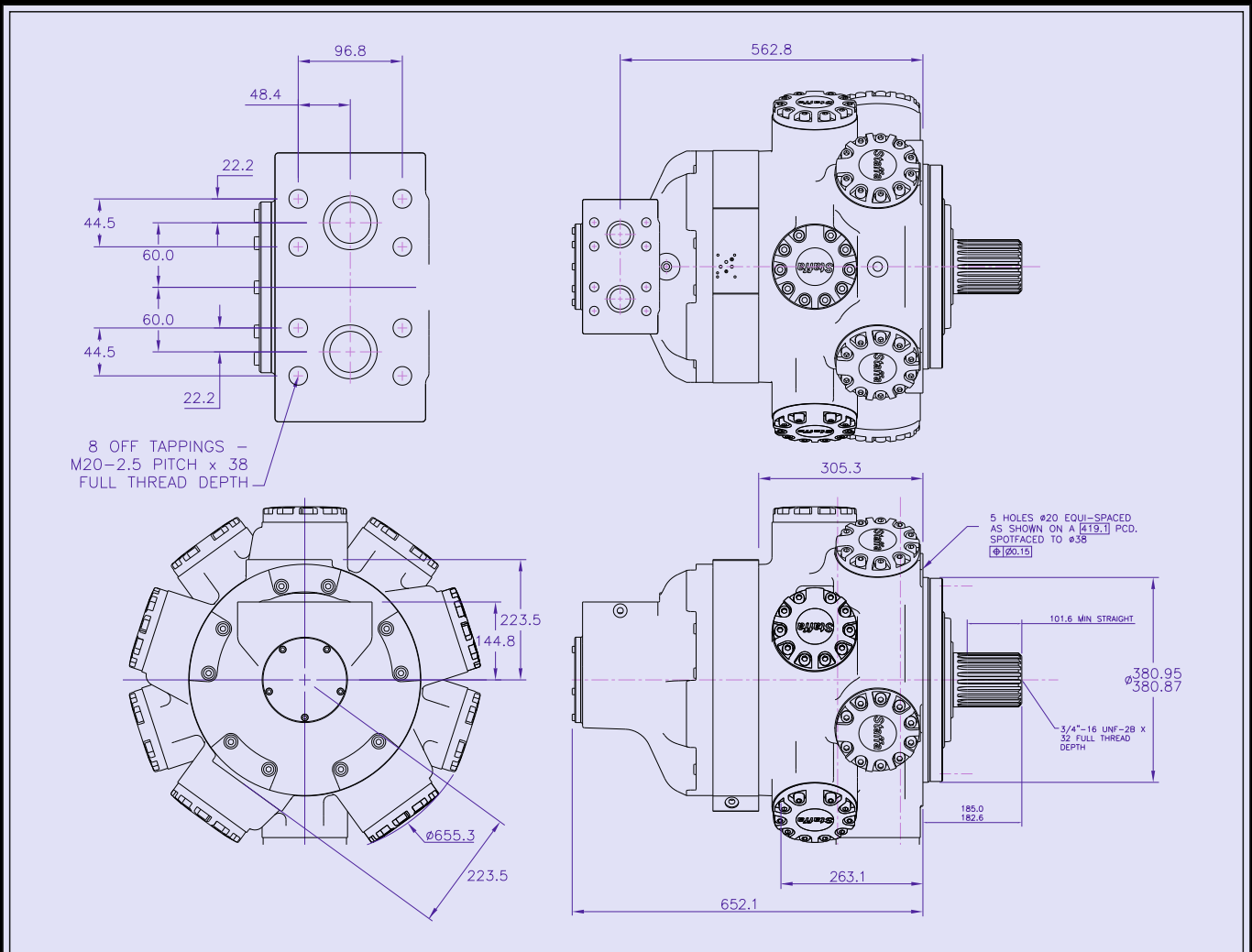
Displacement Code		400	390	270	210	205	195	75	20	10	00
Displacement	cc/rev	6555	6391	4425	3441	3359	3195	1229	328	164	0
Displacement (Front Bank)	cc/rev	3277	3195	3277	3277	3277	3195	1147	164	82	0
Displacement (Rear Bank)	cc/rev	3277	3195	1147	164	82	0	82	164	82	0
Average Actual Running Torque	Nm/bar	100.0	97.4	66.1	51.3	50.1	47.6	18.1	3.6	0.0	0
Average Actual Mechanical Efficiency	%	95.9	95.8	93.9	93.7	93.7	93.6	92.5	69.0	0.0	0
Average Actual Start Torque	Nm/bar	91.6	89.3	60.0	44.0	42.7	40.1	10.2	/	/	/
Average Actual Start Efficiency	%	87.8	87.8	85.2	80.3	79.9	78.8	52.1	/	/	/
Maximum Continuous Speed	rpm	220	220	220	220	220	220	460	630	1500	1500
Maximum Continuous Power	kW	430	430	315	265	260	250	95	20	10	0
Maximum Continuous Pressure	bar	250	250	250	250	250	250	250	250	20	20
Maximum Intermittent Pressure	bar	300	300	300	300	300	300	300	300	20	20

*Data shown at 250bar with 15 l/min crankcase flushing.  
Intermediate displacements can be made available to special order.*

## Hydraulic Circuit:



## Installation Details:



Displacement change and porting orientations can be changed on special order.

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