

API 610 SINGLE STAGE OH2

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HYDRAULIC PERFORMANCE COVERAGE

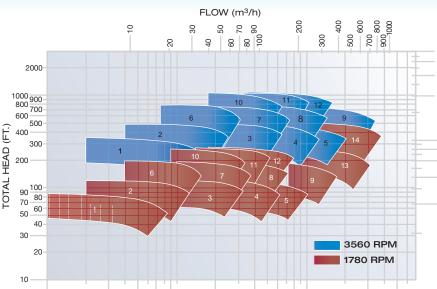
Hz 60 Performance Coverage

Visit our web site at www.petrorahanpump.ir and specify flow and performance needs and obtain pump selection, performance curve, drawing, . and data sheet

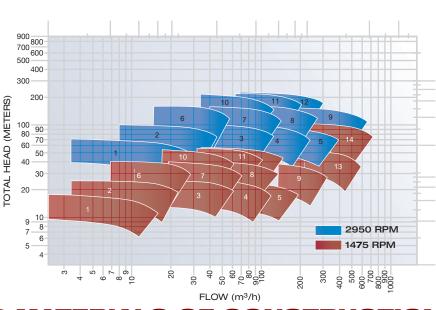
Hz 50 Performance Coverage



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Performances shown are normal and are to be used for preliminary selection only.

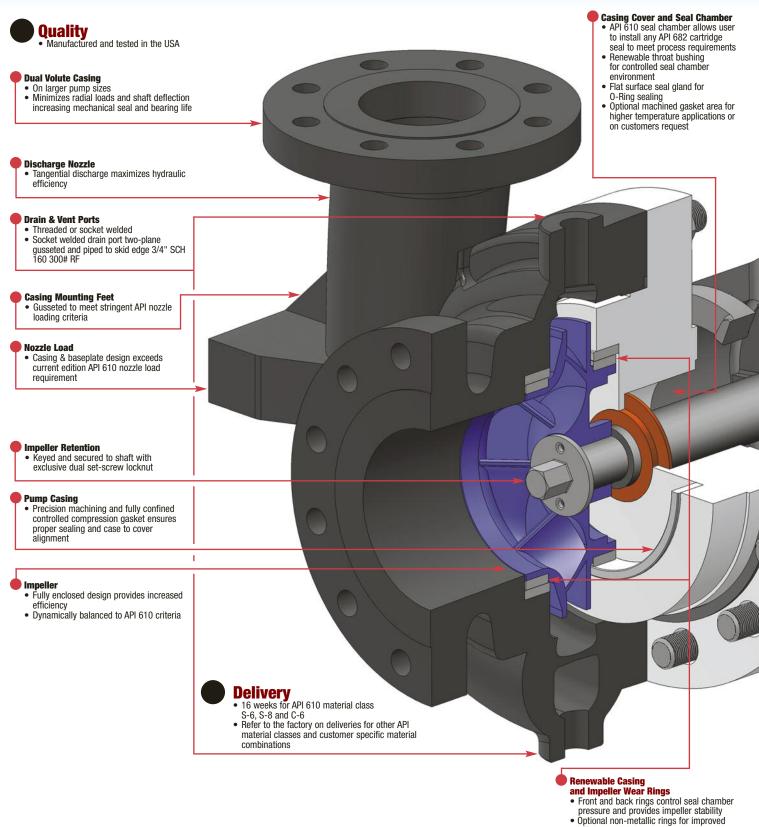


STANDARD MATERIALS OF CONSTRUCTION

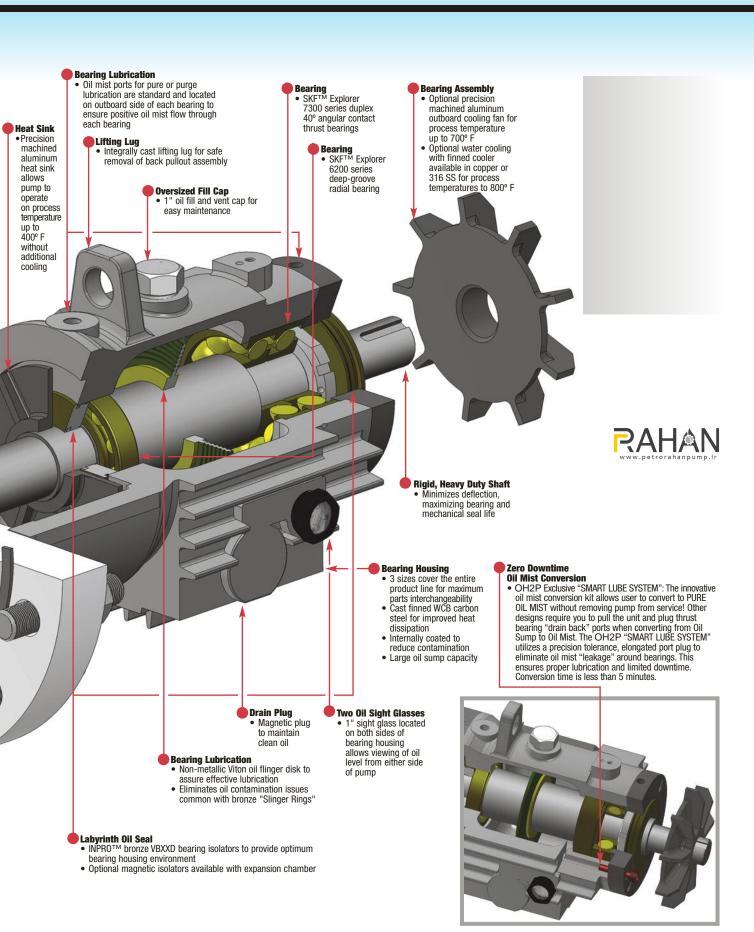
API MATERIAL CLASS	S-6	S-8	C-6	A-8
CASING	A216 GRADE WCB	A216 GRADE WCB	A487 GRADE CA6NM	A351 GRADE CF3M
COVER	A516 GRADE 70	A516 GRADE 70	A479 TYPE 410SS	A479 TYPE 316/316L
IMPELLER	A487 GRADE CA6NM	A351 CF8M 316SS	A487 GRADE CA6NM	A351 CF8M 316SS
SHAFT	A276 TYPE 410SS CONDITION "T"	A479 TYPE 316 / 316L	A276 TYPE 410SS CONDITION "T"	A479 TYPE 316 / 316L
IMPELLER LOCK NUT	A479 TYPE 316L	A479 TYPE 316L	A479 TYPE 316L	A479 TYPE 316L
BEARING HOUSING	A216 GRADE WCB CARBON STEEL	A216 GRADE WCB CARBON STEEL	A216 GRADE WCB CARBON STEEL	A216 GRADE WCB CARBON STEEL
IMPELLER WEAR RINGS	420 SS HT: 400-450 BHN	316 SS HARD FACED	420 SS HT: 400-450 BHN	316 SS HARD FACED
CASING WEAR RINGS	410 SS HT: 262-302 BHN	316 SS HARD FACED	410 SS HT: 262-302 BHN	316 SS HARD FACED
THROAT BUSHING	410 SS HT: 262-302 BHN	316 SS HARD FACED	410 SS HT: 262-302 BHN	316 SS HARD FACED
CASING STUDS	A193 GRADE B-7	A193 GRADE B-7	A193 GRADE B-7	A193 GRADE B-7
CASING NUTS	A194 GRADE 2H	A194 GRADE 2H	A194 GRADE 2H	A194 GRADE 2H

*Other API 610 Material Classes and Combinations are available

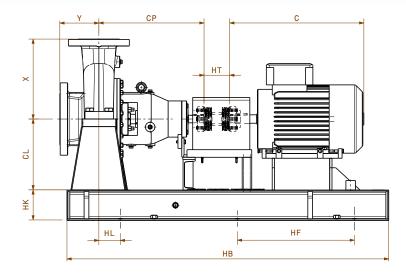
DESIGN FEATURES AND BENEFITS

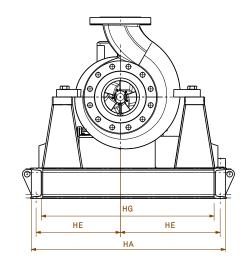


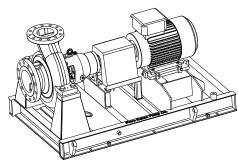
efficiency and dry running



OUTLINE DIMENSIONS







PUMP AND DRIVER DIMENSIONS

PUMP SIZE	CURVE NO.	CP	CL	HL	HT	x	Y	SUCTION	DISCHARGE	PUMP WEIGHT-KG	BASE #
40-80-230	1	633	321	127	127	216	168	3"	1.5"	220	3
40-80-260	2	633	356	152	127	267	175	3"	1.5"	273	3
80-110-260	3	651	387	152	178	256	270	4"	3"	286	5
110-160-260	4	651	368	152	178	267	236	6"	4"	296	5.5A
160-160-260	5	653	368	203	178	279	174	6"	6"	296	6
40-80-330	6	702	292	152	127	298	197	3"	1.5"	286	5
40-110-330	7	699	406	165	178	332	190	4"	3"	309	5.5B
110-160-330	8	702	457	216	178	356	341	6"	4"	318	6.5
160-210-330	9	722	508	203	203	383	227	8"	6"	341	7A
50-110-390	10	716	317	178	178	330	203	4"	2"	318	6
80-160-390	11	716	406	184	178	316	207	6"	3"	364	6.5
110-160-390	12	722	406	178	178	400	178	6"	4"	386	7A
210-260-390	13	725	559	241	178	408	257	10"	8"	500	6.5
210-260-540	14	772	610	354	178	483	254	10"	8"	818	7A

BASEPLATE DIMENSIONS

BASE #	HA	HB	HK	HE	HF	HG	WEIGHT-KG
3	914	1842	152	419	768	762	409
5	1067	1842	152	495	768	914	455
6	1067	2451	152	495	715	914	545
6.5	1067	2756	152	495	613	914	636
5.5A	1067	2146	152	495	614	914	500
5.5B	1067	2146	152	495	614	914	523
7A	1550	3150	152	737	947	1397	944

NOTES

- 1. DIMENSIONS ARE IN MM
- 2. DIMENSIONS OF PUMP ARE ± 3 MM UNLESS OTHERWISE NOTED
- 3. DIMENSIONAL TOLERANCES OF MOTOR ARE IN COMPLIANCE WITH NEMA MG-1
- 4. PUMP FLANGE RATINGS ARE ANSI B16.5 300# RF
- 5. CCW ROTATION VIEWED FROM COUPLING END
- 6. BASEPLATE DIMENSIONS NOT TO BE USED FOR CONSTRUCTION

TECHNICAL DATA

PUMP SIZE		40-80-230	40-80-260	80-110-260	110-160-260	160-160-260	40-80-330	40-110-330	110-160-330	160-210-330	50-110-390	80-160-390	110-160-390	210-260-390	210-260-540
FLAN	SUCTION - 300# RF [IN]	3	3	4	6	6	3	4	6	8	4	6	6	10	10
FLAIN	DISCHARGE - 300# RF [IN]	1.5	1.5	3	4	6	1.5	3	4	6	2	3	4	8	8
•	S-6 [bar 60 DEG °C]														
Ň	S-8 [bar 60 DEG °C]	50													
MAWP	C-6 [bar 60 DEG °C]							0.	5						
-	A-8 [bar 60 DEG °C]														
	Mechanical Group	IA		IE	3		IIA				IIB			IIIA	
	Bearing Frame		I		1	I	Ш			Ш				III	
	Volute Type		SINGLE		DOUBLE SINGLE			GLE	DO	JBLE	SINGLE		DOUBLE		
U	Discharge (Flush) [IN]	1/2													
AUX PORTS	Vent [IN]	1/2			3/4						1/2 3/4			4	
₹	Drain [IN]	1/2				3/4 1/2 3/4							+		
-	Suction [IN]	1/2													
	Max Impeller [mm]	229	267	267	267	267	338	338	338	338	394	394	394	394	533
	Min Impeller [mm]	178	203	203	203	203	254	254	254	254	305	305	305	305	381
	Diameter at Coupling [mm]		41			48		60	48		60		64		
	Keyway at Coupling [mm]	10					13 13							19	
	Extension at Coupling [mm]	89					89								114
Ŀ	Diameter at Mechanical Seal [mm]	51					70								85
SHAFT	Diameter Between Bearings [mm]	76				89								108	
	Distance Between Bearings [mm]	197			224								245		
	Radial Bearing	6212				6215							6218		
	Thrust Bearing	7312 X 2				7314 X 2							7317 X 2		
	Maximum RPM					3600								780	
	Maximum HP/100 RPM	8.0				12.5				12.5				21.5	

Typical Applications

OH2P pump is designed for covering the full range of petroleum refinery services, petrochemical plants, gas processing, oil processing, offshore installations (platforms), hydrocarbon and crude oil pipeline, and aviation (jet) fueling.



PETRO RAHAN PUMP Test Facility

located in Tehran Iran provides performance and NPSHR test in accordance with latest edition of API 610 for horizontal and vertical pumps.

See our Test Facility Brochure for more information.

Typical Services

Services covered but not limited by the OH2P pump include:

- Column reflux Scrubber circulation
- Column bottoms
- Reboiler
- Injection fuel blending
- Heat transfer
- Gas oil
- Heavy gas oil
- Hot oil
- Column charge
- Reactor feed
- Coker unit
- Stabilizer overhead

- Scrubber circulationTower bottomsOff-site hydrocarbon
- Stripper overhead
- Gasoline
- Water
- Propanes
- Crude oil
- Vis-breaker
- Naphtha
- Kerosene

RAHAN

Factory address: Iran Tehran in front of the oil refinery Shahr Seng St. Third St. (Gol Maryam) No. 36/1