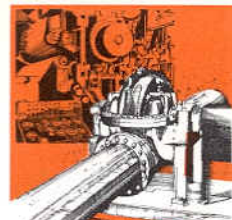
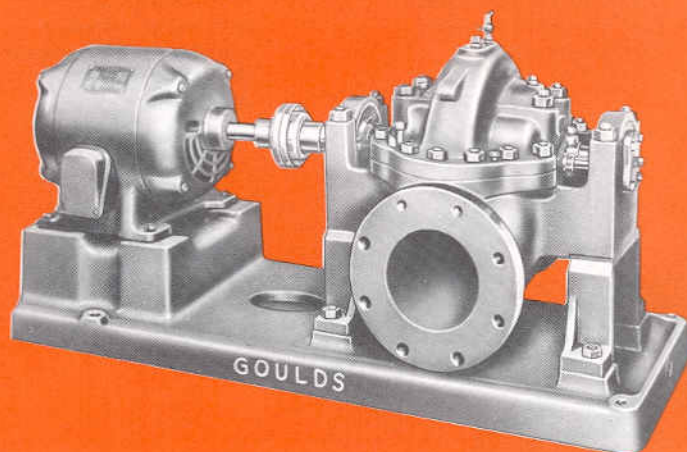


Model 3405

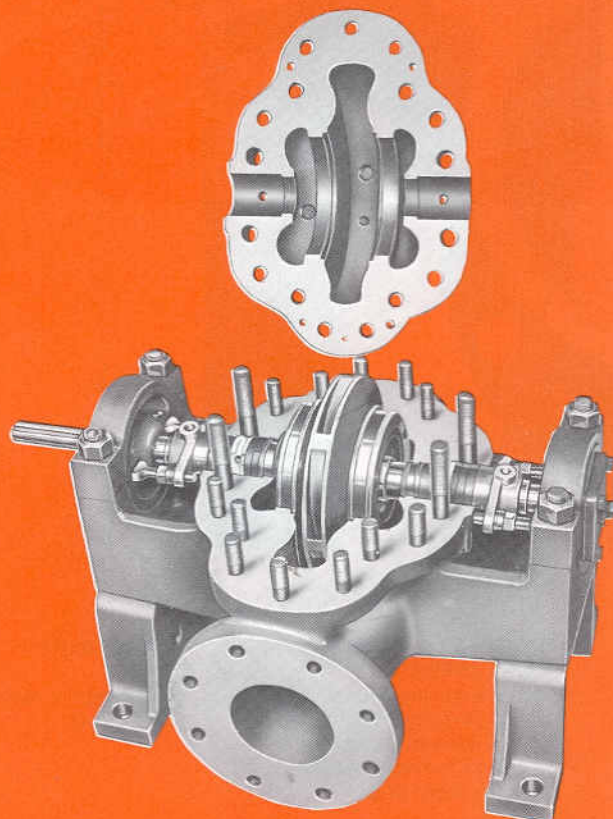
Single Stage, Double Suction Pumps



DOUBLE SUCTION



Also available in vertically mounted design (Model 3404).



Designed for Wide Range of Industrial, Municipal and Marine Services

- Capacities to 6400 GPM (1453 m³/h)
- Heads to 550 feet (168 m)
- Temperatures to 350°F (177°C)
- Pressures to 250 PSIG (1724 kPa)

Design Features

Horizontally Split Casing Suction and discharge nozzles in lower casing ease inspection and repair.

Double Suction Design Assures axial balance; long life—low maintenance.

Enclosed Impeller Hand finished and dynamically balanced.

Wear Rings Easily replaced, protect against casing wear.

Suction & Discharge Common centerlines simplify plant design.

Maximum Parts Interchangeability Reduces inventory requirements.

Services

Process Quench Water, Stripper Bottoms, Reboiler Circulation, Cooling Tower

Pulp & Paper Primary and Secondary Cleaner, Filtrate, Mill Water Supply, Fan Pump

Primary Metals Cooling Water, Quench and Leaching

Municipal High Lift, Low Lift, Wash Water, Waste Water, Raw Water

Utilities Cooling Tower, Component Cooling, Service Water

Marine Bilge and Ballast, Cargo, Cooling Service, Fire Pump

Model 3405 Single Stage, Double Suction Pumps

Design Features for Wide Range of Industrial, Municipal and Marine Services

BEARINGS

Grease lubricated ball bearings standard. Flood oil lubrication optional. Duplex thrust bearing supplied with oil lube. Water cooling optional with either grease or oil lube.

RENEWABLE SHAFT SLEEVES

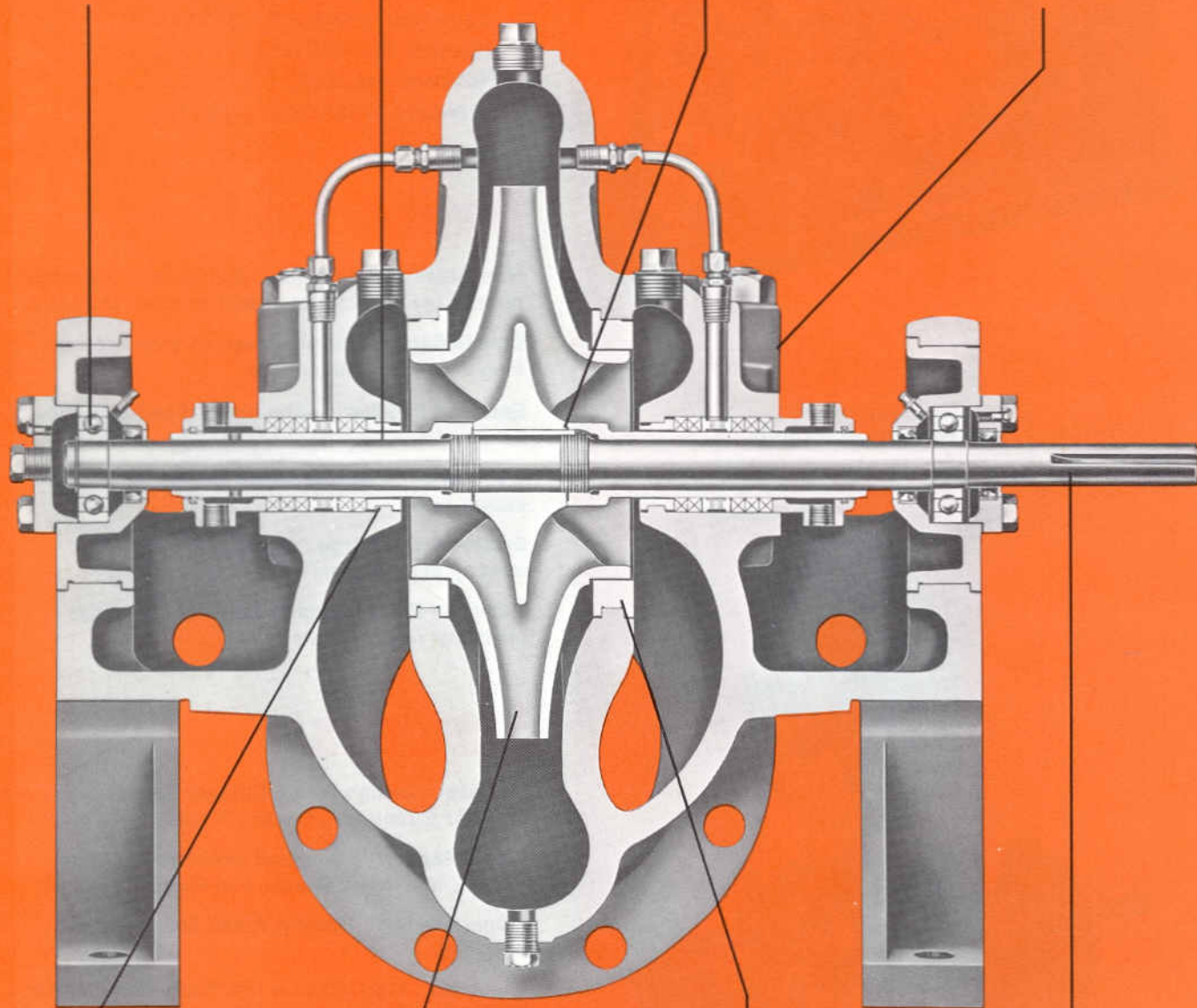
Fully protect shaft from pumpage.

POSITIVE LIQUID SEALING

Teflon O-ring seal between sleeve and impeller hub assures completely dry-running shaft.

UPPER HALF CASING

Permits inspection, maintenance or removal of complete rotating element without disturbing piping or alignment.



STUFFING BOX BUSHING

Protects casing from wear. Easily replaceable. Secured with double lock in lower half casing.

DOUBLE SUCTION IMPELLER

Minimizes axial thrust. Highly efficient for smooth, vibration-free operation. Interior surfaces or water ways hand finished. Accurately balanced and keyed to shaft.

RENEWABLE CASING WEAR RINGS

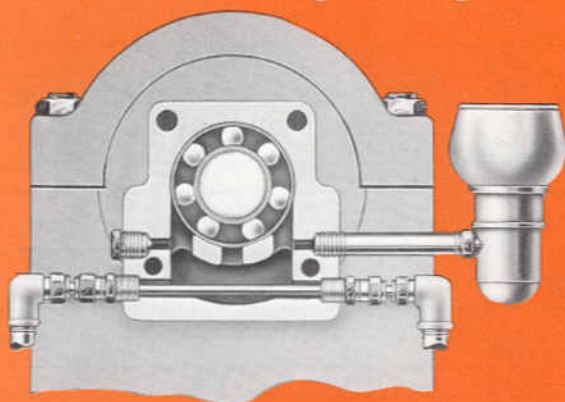
Permit easy maintenance of proper running clearances. Double lock in lower half casing to prevent rotation. Impeller wear rings optional.

HEAVY DUTY SHAFT

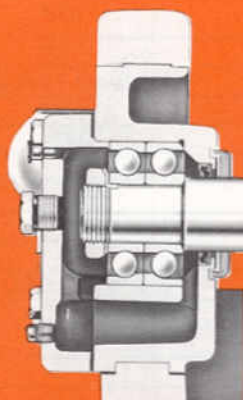
Designed to reduce deflection.

Long Life / Low Maintenance / Reliable Operation

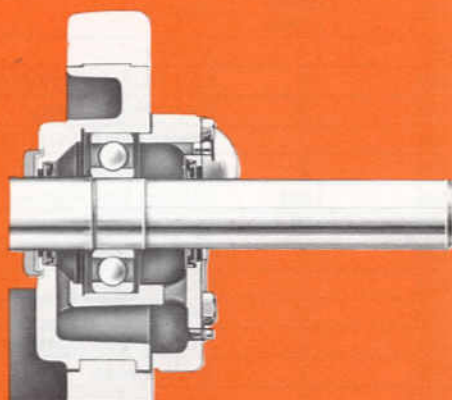
Alternate Bearing Arrangements



Water-cooled
Bearing Housing



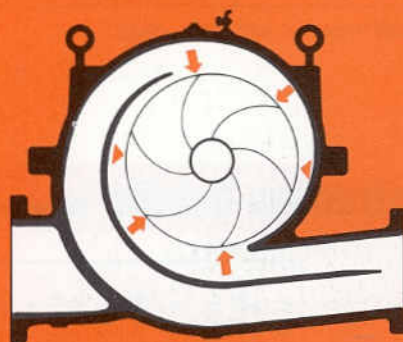
Thrust End Bearing
(Oil Lubricated)



Coupling End Bearing
(Oil Lubricated)

Balanced Design

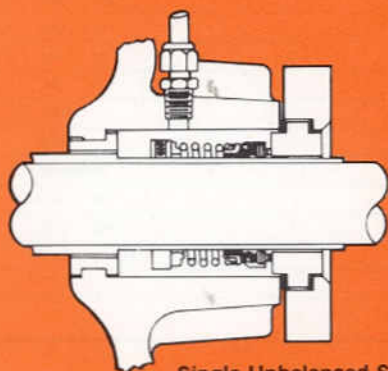
Goulds Model 3405 DV dual volute casing design is ideal where pumps must periodically operate at capacities above or below design capacity or at interrupted high head. Essentially, this design equalizes radial forces and lessens radial reaction on shaft and bearings. This equalization or balancing of radial forces is accomplished by dividing the liquid discharged by the impeller into two half-capacity volutes with cutwaters set 180° apart. Radial forces on the shaft and bearings are equally opposed (see illustration). Combined with a double suction impeller for axial balance, the 3405-DV provides long life/ low maintenance. Refer to construction details chart for applicable sizes.



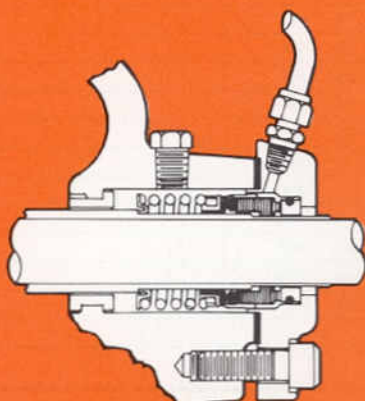
Dual volute design balances radial forces — assures smooth, vibration-free performance.

Maximum Sealing Flexibility

A variety of mechanical seals are available. Conversion can be made from packed box to mechanical seals in the field without machining.



Single Unbalanced Seal



Single Balanced Seal

Parts List and Materials of Construction

Item No.	No. Req'd per Pump	Part Name	Material				
			Bronze Fitted	All Iron	All Bronze	All Iron/ 316 R.E.	All 316
100	1 Upper 1 Lower	Casing	1003	1003	1102	1003	316
101	1	Impeller	1102	1000	1102	316	316
102	2	Seal Tubing (Optional)	Brass Tubing	NA	Brass Tubing	NA	316 Tubing
103	2	Wear Ring, Casing	1102	1001	1102	316	316
104	1	Shaft Sleeve, Locking	1104	316	1104	316	316
105	2	Lantern Ring	Glass-Filled Teflon				
106	1 set	Stuffing Box Packing	Die-Formed Asbestos				
107	2	Stuffing Box Gland	1102			316	316
109	1	Bearing End Cover, Thrust	1001				
122	1	Shaft	SAE 4340		316		316
123	2	Deflector	Glass-Filled Nylon				
125	2	Stuffing Box Bushing	1102	1000	1104	316	316
126	1	Shaft Sleeve	1104	316	1104	316	316
127△	2	Wear Ring, Casing	1102	1000	1102	316	316
131	2	Pedestal	1001				
134	2	Bearing Housing	1001				
142	2	Wear Ring, Impeller	1104	1000	1104	316	316
178	1	Impeller Key	AISI 303			316	316
320△	6	Set Screw, Impeller Wear Ring	AISI Stainless				
412A	2	O-Ring, Shaft	Buna Rubber				
412△	2	O-Ring, Impeller	Teflon				

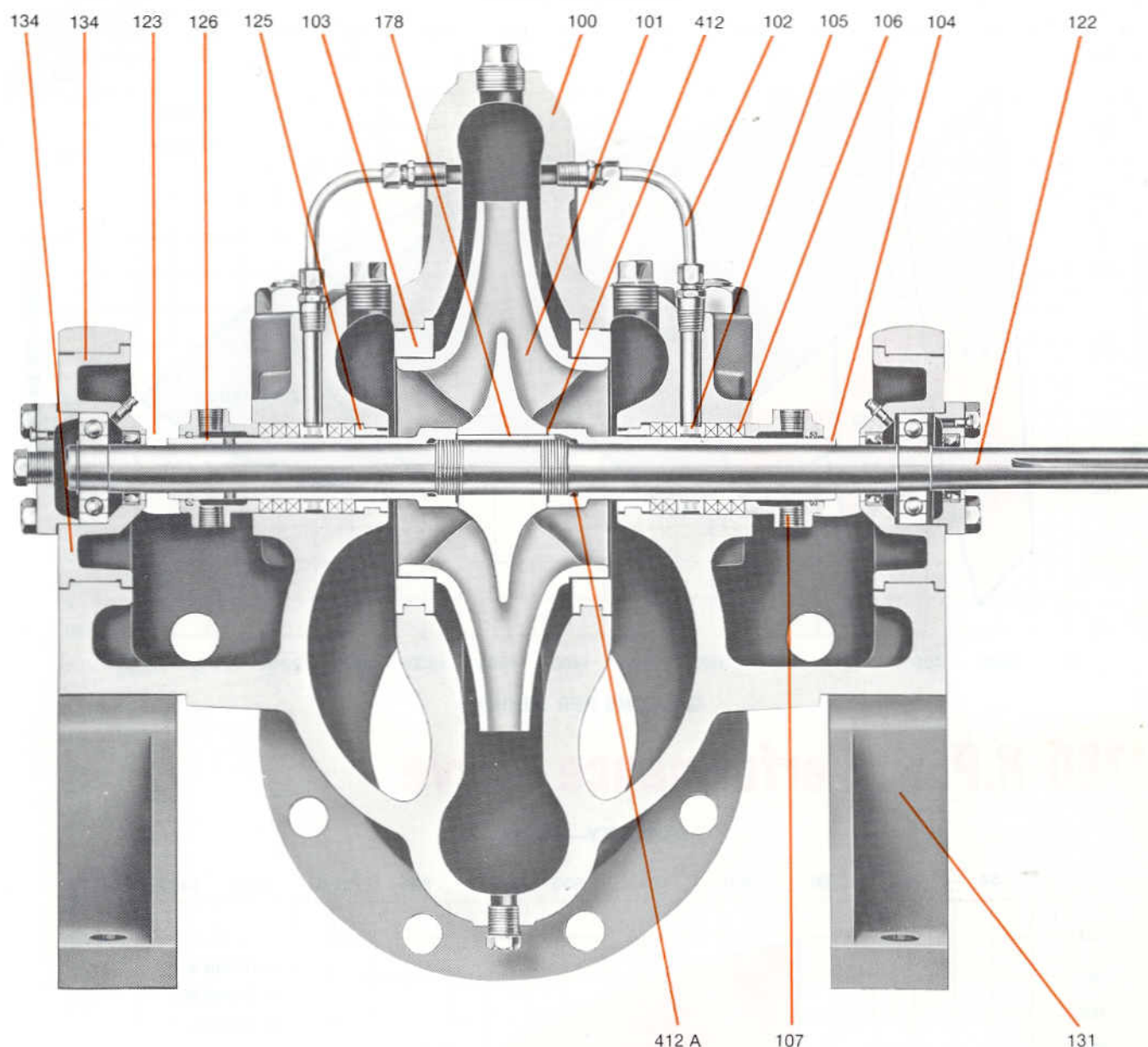
△ Used with impeller with wear rings.

Construction Details

Dimensions are nominal. Approximate metric equivalents in parentheses.

		Group S						Group M										Group L																		
		2 x 3-11 (144)	3 x 4-12 (176)	4 x 5-126 (205)	3 x 4-14 (212)	4 x 6-12 (212)	4 x 6-126 (293)	3 x 4-17 (293)	4 x 6-11 (288)	4 x 6-14 (297)	4 x 6-17 (324)	4 x 6-176 (324)	5 x 8-120V (306)	5 x 8-1200V (338)	5 x 8-140V (326)	6 x 8-12 (358)	6 x 8-14 (358)	6 x 8-146 (403)	6 x 8-170V (403)	6 x 8-1700V (407)	8 x 10-120V (407)	8 x 10-1200V (468)	6 x 8-220V (578)	8 x 10-14 (578)	8 x 10-146 (599)	8 x 10-17 (599)	9 x 10-176 (585)	10 x 12-12 (385)	10 x 12-14 (385)	10 x 12-146 (700)	10 x 12-17 (700)	10 x 12-176 (720)	12 x 14-120V (720)	12 x 14-140V (729)		
Pump	Weight—Bronze Fitted Bare Pump lbs (kg)	320 (144)	390 (176)	455 (205)	470 (212)	650 (293)	640 (288)	660 (297)	720 (324)	680 (306)	750 (338)	725 (326)	795 (358)	895 (403)	905 (407)	1485 (668)	1285 (578)	1330 (599)	1300 (585)	1385 (623)	1555 (700)	1600 (720)	1620 (729)													
	Casing Thickness—Volute inches (mm)	3/8 (16)	1/2 (18)	3/4 (19)	1/2 (18)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	1/2 (16)	1/2 (18)	1/2 (21)	7/8 (22)	1/2 (22)	7/8 (22)	1/2 (24)	7/8 (22)	1/2 (22)	1/2 (22)	1/2 (22)	1 (25)	3/4 (22)	1/2 (24)													
	Casing Thickness—Side Walls inches (mm)	1/2 (13)	1/2 (16)	1/2 (16)	3/4 (16)	3/4 (16)	3/4 (16)	3/4 (16)	3/4 (16)	3/4 (16)	1/2 (18)	1/2 (18)	1/2 (18)	3/4 (19)	3/4 (19)	3/4 (19)	1/2 (21)	3/4 (19)	3/4 (19)	3/4 (19)	1 (19)	3/4 (19)	3/4 (19)													
	Max. Diameter Spherical Solids (in)	3/4 (8)	3/4 (8)	3/4 (7)	3/4 (16)	3/4 (10)	3/4 (8)	3/4 (14)	3/4 (11)	3/4 (11)	3/4 (18)	3/4 (16)	3/4 (18)	3/4 (19)	3/4 (11)	3/4 (11)	3/4 (18)	3/4 (11)	3/4 (11)	3/4 (18)	3/4 (21)	1 (25)	3/4 (18)	3/4 (21)												
	Casing Capacity gallons (liters)	1.5 (5.7)	2.6 (9.8)	3.6 (13.6)	4.25 (16.1)	3.9 (14.8)	5.0 (18.9)	5.3 (20.1)	5.4 (20.4)	8.3 (31.4)	8.5 (32.2)	9.1 (34.4)	9.4 (35.6)	11.6 (43.9)	16.5 (62.5)		21.0 (79.5)	19.5 (73.8)	19.5 (73.8)	24.9 (94.3)	25.0 (94.6)	29.3 (110.9)	33.0 (124.9)	35.5 (134.4)												
Stuffing Box	Stuffing Box Bore inches (mm)	2 (51)						2 1/2 (64)						3 1/4 (83)																						
	Stuffing Box Depth (to bushing) inches (mm)	2 1/4 (59)						2 1/4 (71)						3 1/4 (86)																						
Box	Packing Size inches (mm)	3/4 x 3/4 (8 x 8)						3/4 x 3/4 (10 x 10)						3/4 x 3/4 (10 x 10)																						
	No. of Packing Rings	5						5						6																						
Shaft	Width of Lantern Ring inches (mm)	3/4 (16)						3/4 (19)						3/4 (22)																						
	Shaft Dia. at Impeller inches (mm)	1 1/4 (30)						1 1/4 (40)						2 1/4 (56)																						
	Shaft Dia. in Sleeve inches (mm)	2 1/4 (27)						2 1/4 (37)						2 1/4 (52)																						
	Shaft Dia. at Cplg. End inches (mm)	1 1/4 (24)						1 3/4 (35)						2 1/4 (49)																						
Bearings	O.D. Shaft Sleeve inches (mm)	1 3/4 (35)						1 3/4 (44)						2 1/4 (64)																						
	Ball Bearing—Cplg. End	305-S						307-S						310-S																						
	Ball Bearing—Grease Lube	305-S						307-S						310-S																						
	Thrust End Oil Lube	7304PD-DB						7306PD-DB						7308PD-DB																						
	Bearing Grease Lube	18 3/4 (467)						22 1/2 (572)						28 (711)																						
	Centers inches (mm)	18 3/4 (476)						22 1/4 (581)						28 3/4 (721)																						
General	Max. Shaft H.P. per 100 RPM	2.57 (1.92)						9.7 (7.24)						27.1 (20.2)																						
	Max. Liquid Temp. w/o Cooling							250°F (121°C)																												
	Max. Liquid Temp. with Gland Quenching and BRG. Cooling							350°F (177°C)																												

Sectional View Model 3405

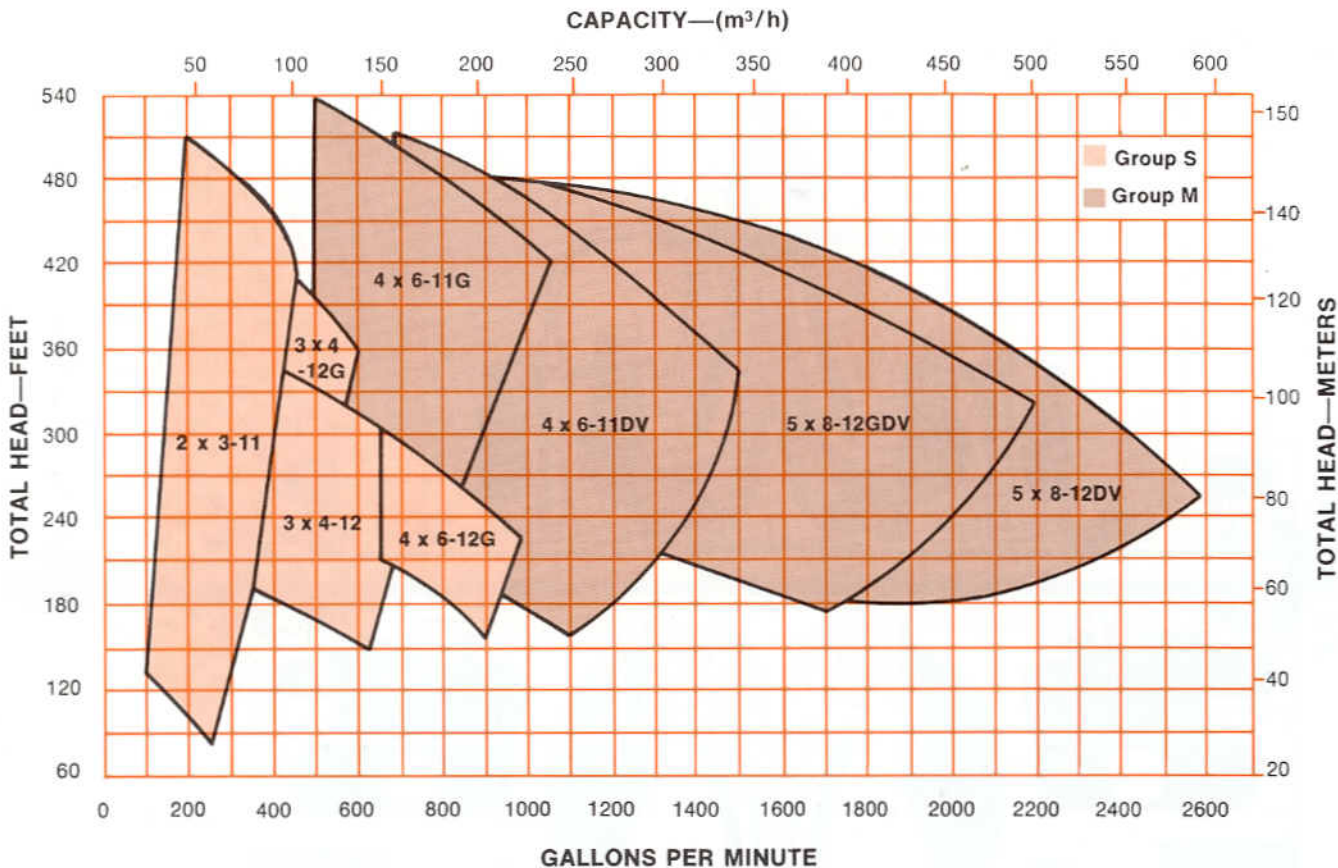


Materials of Construction

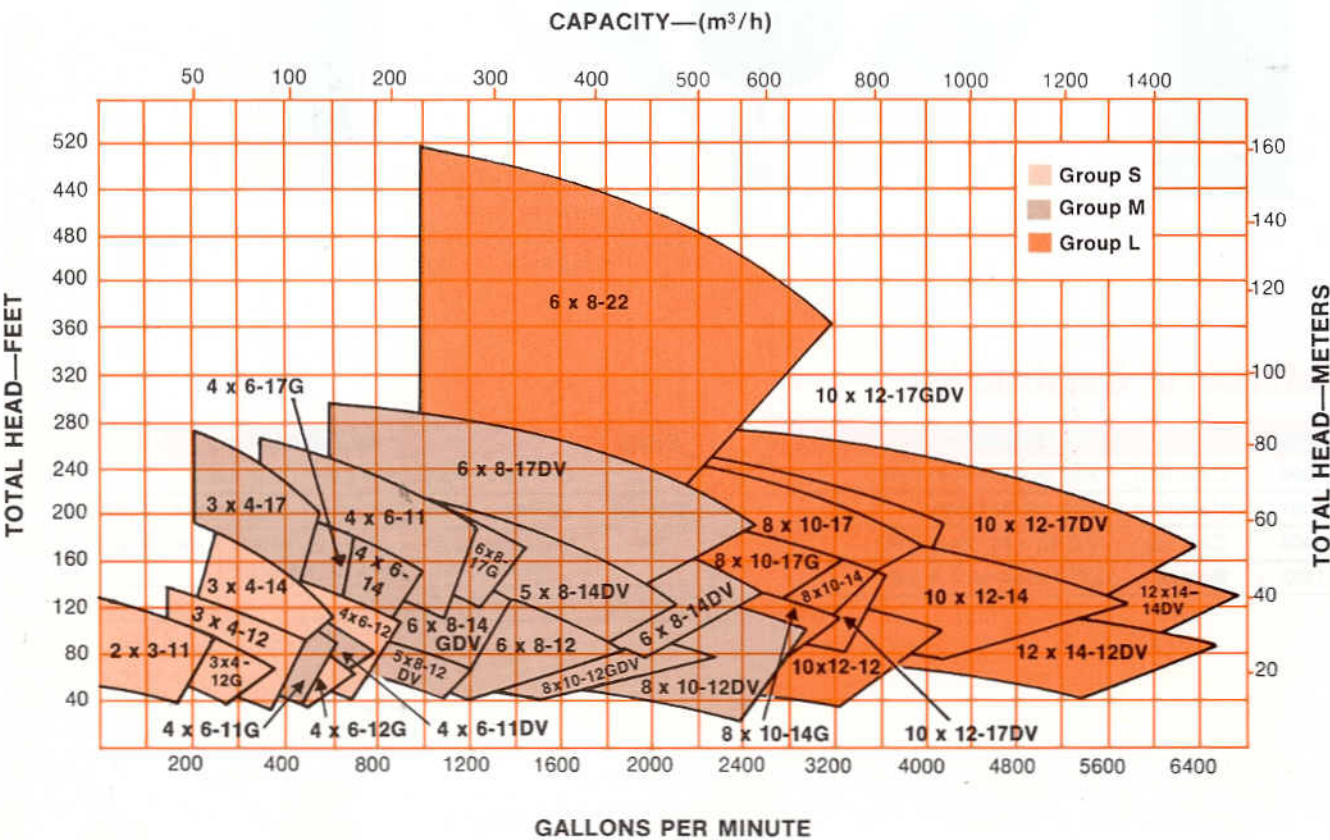
Code	Specification
1000	Cast Iron — ASTM A48 Class 25B
1001	Cast Iron — (No ASTM Code)
1003	Cast Iron — ASTM A48 Class 30B
1102	Bronze — ASTM B584-4A CA 836

Code	Specification
1104	Bronze — ASTM B271-3B, Cent. Cast
AISI 303	Stainless Steel (Wrought) — ASTM A582 Type 303
316	Stainless Steel — AISI 315, ASTM A296 CF-8M (cast), ASTM A743, Type 316 (wrought)
SAE 4340	ASTM A322, Gr. 4340

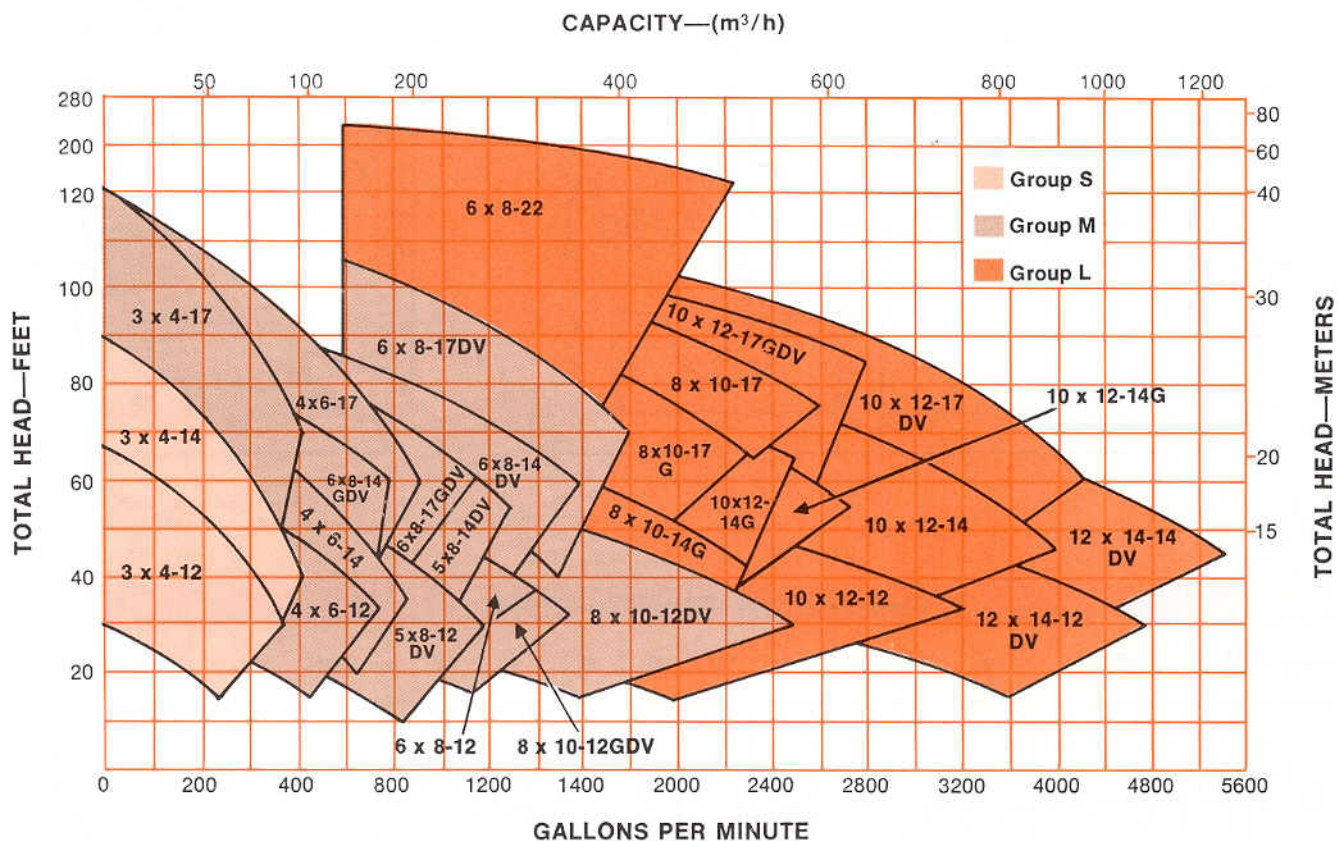
3550 R.P.M. Performance Curve



1780 R.P.M. Performance Curve



1150 R.P.M. Performance Curve



Model 3404

Vertically Mounted Double Suction Pumps

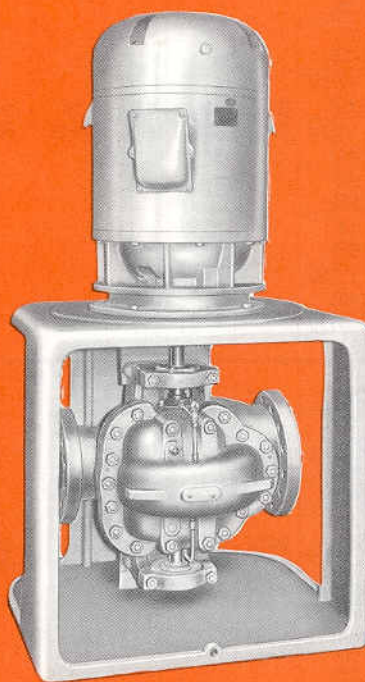
Three rugged cast iron pump supports adapt the three groups of Model 3405 pump groups to vertical mounting.

Minimum floor space required.

Designed to provide maximum accessibility to pump parts, suction and discharge connections.

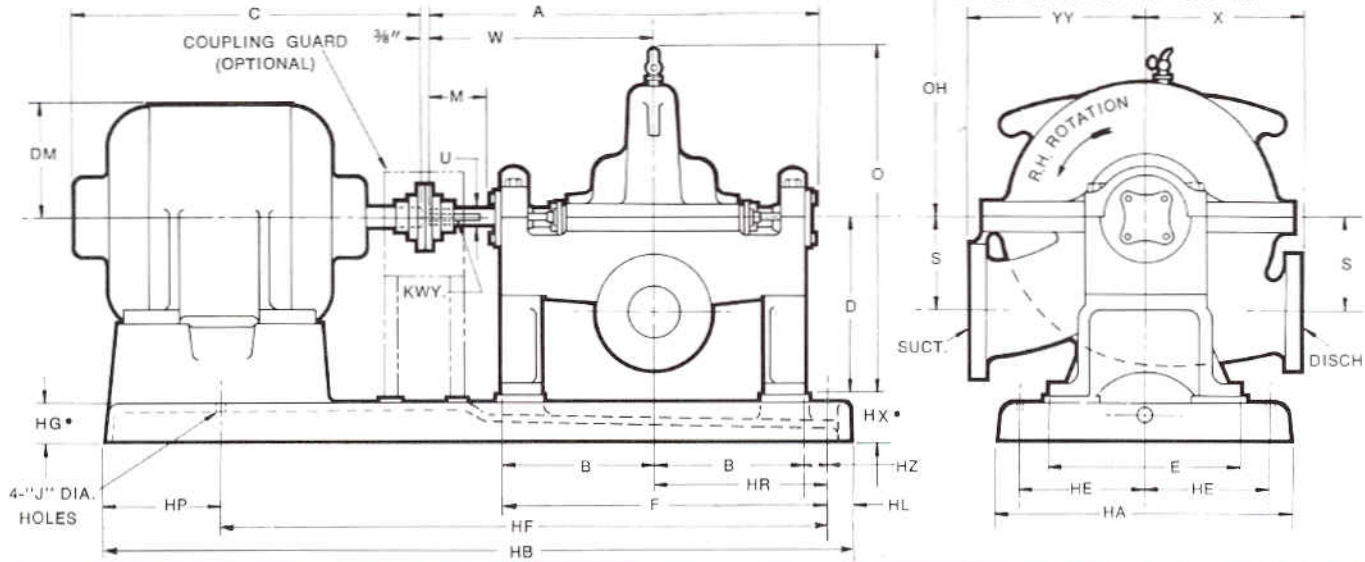
Surface of pump support has machined circular pad for mounting vertical type motors.

Lipped base forming basin provided with tapped drain opening.



Dimensions Model 3405

All dimensions in inches and (mm). Not to be used for construction.



DIMENSIONS DETERMINED BY PUMP

Group	Disch. Size	Suct. Size	Casing Class	A	B	D	E	F	M	O	S	W	YY	X	OH	U	Kwy.	Approx. Wgt. lbs (kg)
S	2 (5)	3 (8)	11 (28)	26 3/4 (68)	9 1/4 (25)	11 1/2 (29)	12 1/2 (32)	19 7/8 (50)	3 7/8 (10)	22 3/8 (57)	7 1/4 (18)	14 5/8 (37)	9 (23)	8 (20)	16 1/2 (42)	.9375 (2.381) x (.32)	1/4 x 1/8 (.63)	320 (144)
	3 (8)	4 (10)	12 (30)							23 5/8 (60)	6 (15)		11 1/4 (29)	10 (25)	18 1/2 (47)			390 (176)
	3 (8)	4 (10)	14 (36)							24 7/8 (63)	7 (18)		12 1/2 (32)	11 (28)	20 1/2 (52)			455 (205)
	4 (10)	6 (15)	12 (30)							24 (61)	5 7/8 (15)		12 1/4 (31)	10 1/2 (27)	18 1/2 (47)			470 (212)
M	3 (8)	4 (10)	17 (43)	31 1/2 (80)	12 1/4 (31)	16 (41)	16 (41)	24 1/8 (61)	5 1/2 (14)	30 1/2 (77)	7 1/2 (19)	18 (46)	13 (33)	12 (30)	23 (58)	1.3750 (3.492) x (.40)	3/16 x 5/32 (.79)	650 (292)
	4 (10)	6 (15)	11 (28)							27 3/8 (70)	6 3/4 (17)		11 1/4 (29)	10 (25)	17 (43)			640 (288)
	4 (10)	6 (15)	14 (36)							29 3/4 (76)	6 3/4 (17)		13 1/2 (34)	11 1/2 (29)	24 (61)			660 (297)
	4 (10)	6 (15)	17 (43)							30 7/8 (78)	8 1/2 (22)		14 1/2 (37)	13 (33)	23 1/2 (60)			720 (324)
	5 (13)	8 (20)	12DV (30)							28 1/16 (73)	8 (20)		14 1/2 (37)	12 (30)	19 (48)			680 (306)
	5 (15)	8 (20)	14DV (36)							30 3/8 (77)	9 (23)		15 1/2 (39)	12 1/2 (32)	21 1/2 (55)			750 (338)
	6 (15)	8 (20)	12 (30)							29 3/8 (75)	8 (20)		14 1/2 (37)	12 (30)	19 1/2 (50)			725 (326)
	6 (15)	8 (20)	14 (36)							30 7/8 (78)	9 (23)		18 (46)	13 1/2 (34)	22 (56)			795 (358)
	6 (15)	8 (20)	17DV (43)							31 7/8 (81)	9 (23)		17 (43)	14 1/2 (37)	24 1/2 (62)			895 (403)
	8 (20)	10 (25)	12DV (30)							30 3/8 (77)	8 3/4 (22)		17 (43)	13 1/2 (34)	20 1/2 (52)			905 (407)
L	*6 (15)	8 (20)	22 (56)	37 1/8 (94)	15 (38)	22 (56)	23 (58)	30 (76)	5 1/8 (13)	40 1/2 (103)	12 1/2 (32)	21 (53)	22 (56)	20 1/2 (52)	29 1/2 (75)	1.9375 (4.921) x (.64)	1/2 x 1/4 (1.3) x (.64)	1600 (720)
	8 (20)	10 (25)	14 (36)							37 1/2 (92)	8 3/4 (22)		19 (48)	15 (38)	22 1/2 (57)			1285 (578)
	8 (20)	10 (25)	17 (43)							38 5/8 (98)	10 (25)		20 (50)	16 (41)	25 (64)			1330 (599)
	10 (25)	12 (30)	12 (30)							36 1/2 (93)	10 (25)		19 (48)	15 (38)	20 1/2 (52)			1300 (585)
	10 (25)	12 (30)	14 (36)							38 (97)	10 (25)		20 (50)	16 (41)	23 (58)			1385 (623)
	10 (25)	12 (30)	17 (43)							39 1/4 (100)	11 (28)		21 (53)	17 (43)	25 3/4 (65)			1555 (700)
	12 (30)	14 (36)	12 (30)							37 7/8 (95)	11 (28)		21 (53)	17 (43)	21 1/2 (55)			1600 (720)
	12 (30)	14 (36)	14 (36)							38 1/16 (98)	11 (28)		21 (53)	17 (43)	23 3/4 (60)			1620 (729)

*Discharge for Iron and Bronze is 250 lb. flange, for Steel 150 lb.

Dimensions Model 3405

DIMENSIONS DETERMINED BY MOTOR AND BEDPLATE

Group	Bed-plate No.	Motor Frames	C	HA	HB	HE	HF	HG.	J	HL	HP	HR	HX.	HZ	DM	Bedplate Weight Lbs (kg)
S	1	143T thru 215T	12 1/2 to 19 1/2 (32 to 50)	18 (46)	43 1/2 (110)	7 7/8 (20)	38 1/2 (98)	2 1/2 (6)	3/4 (1.9)	1 1/2 (3.2)	3 3/4 (10)	11 3/4 (29)	3 (8)	1 7/16 (3.7)	3 1/2 - 6 (9-15)	200 (90)
	2	254T thru 286TS	22 1/2 to 27 (57 to 69)	18 (46)	50 1/2 (128)	7 7/8 (20)	39 1/4 (100)	2 1/2 (6)			10 (25)	11 3/4 (29)	3 (8)	1 7/16 (3.7)	6 1/2 - 7 1/2 (17-19)	215 (97)
	3	324T thru 365TS	27 to 32 (69 to 81)	23 (58)	54 1/2 (138)	10 1/4 (26)	42 3/4 (109)	3 1/2 (9)			10 1/2 (27)	11 11/16 (30)	4 (10)	1 3/4 (4.4)	9 - 9 1/2 (23-24)	255 (115)
	4	404TS thru 405TS	34 to 35 1/2 (86 to 90)	23 (58)	57 1/4 (145)	10 1/4 (26)	44 3/4 (126)	3 1/2 (9)			11 1/4 (29)	11 11/16 (30)	4 (10)		11 (28)	275 (124)
M	1	182T thru 286TS	14 1/2 to 27 (37 to 69)	24 (61)	57 1/4 (145)	10 1/2 (27)	50 (127)	3 1/2 (9)	7/8 (2.2)	1 1/2 (3.8)	5 3/4 (15)		4 (10)		5 - 7 1/2 (13-19)	410 (185)
	2	324T thru 365TS	27 to 34 (69 to 86)	24 (61)	61 (155)	10 1/2 (27)	48 1/4 (123)	3 1/2 (9)			11 1/4 (29)	14 1/16 (36)	4 (10)	2 (5)	9 - 9 1/2 (23-24)	440 (198)
	3	404T thru 447TS	34 to 46 (86 to 117)	26 (66)	69 3/4 (177)	11 1/2 (29)	53 1/2 (136)	4 (10)			14 3/4 (37)		4 1/2 (11)		11 - 12 1/2 (28-32)	580 (261)
L	1	254T thru 365TS	22 1/2 to 34 (57 to 86)	33 (84)	68 (173)	14 3/4 (37)	55 1/4 (140)	4 1/2 (11)	1 (2.5)	1 3/4 (4.4)	11 (28)	17 1/4	5	2 1/2	6 1/2 - 9 1/2 (17-24)	850 (383)
	2	404T thru 447TS	34 to 46 (86 to 117)	33 (84)	76 1/2 (194)	14 3/4 (37)	59 13/16 (152)	4 1/2 (11)			14 15/16 (38)	(44)	(13)	(6)	11 - 12 1/2 (28-32)	1050 (473)

• May be exceeded by 3/8" (10 mm), but will never be less than dimension shown.

ANSI FLANGE DIMENSIONS

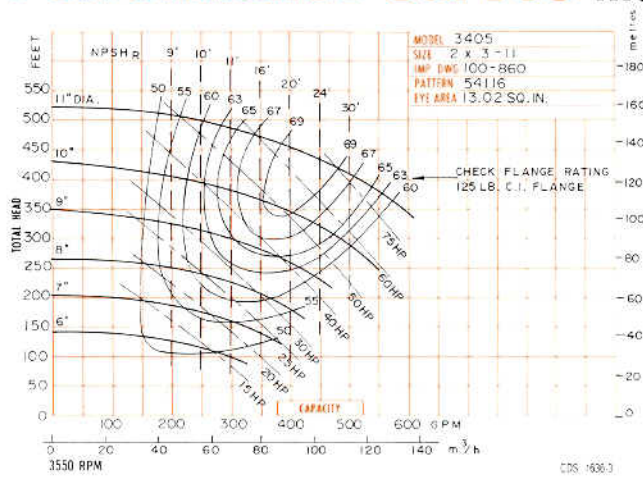
NOM ID	125 lb.					250 lb.				
	O.D.	B.C.	Thick-ness	No. of Holes	Size of Holes	O.D.	B.C.	Thick-ness	No. of Holes	Size of Holes
2 (5)	6 (15)	4 3/4 (12)	7/8 (2.2)	4	3/4 (1.9)	6 1/2 (17)	5 (13)	7/8 (2.2)	8	3/4 (1.9)
3 (8)	7 1/2 (19)	6 (15)	1 1/8 (2.9)	4	3/4 (1.9)	8 1/4 (21)	6 5/8 (17)	1 1/8 (2.9)	8	7/8 (2.2)
4 (10)	9 (23)	7 1/2 (19)	1 1/4 (3.2)	8	3/4 (1.9)	10 (25)	7 7/8 (20)	1 1/4 (3.2)	8	7/8 (2.2)
5 (13)	10 (24)	8 1/2 (22)	1 3/8 (3.5)	8	7/8 (2.2)	11 (28)	9 1/4 (23)	1 3/8 (3.5)	8	7/8 (2.2)
6 (15)	11 (28)	9 1/2 (24)	1 7/16 (3.7)	8	7/8 (2.2)	12 1/2 (32)	10 5/8 (27)	1 7/16 (3.7)	12	7/8 (2.2)
8 (20)	13 1/2 (34)	11 3/4 (30)	1 5/8 (4.1)	8	7/8 (2.2)	15 (38)	13 (33)	1 5/8 (4.1)	12	1 (2.5)
10 (25)	16 (41)	14 1/4 (36)	1 7/8 (4.8)	12	1 (2.5)	17 1/2 (44)	15 1/4 (39)	1 7/8 (4.8)	16	1 1/8 (2.9)
12 (30)	19 (48)	17 (43)	2 (5)	12	1 (2.5)	20 1/2 (52)	17 3/4 (45)	2 (5)	16	1 1/4 (3.2)
14 (36)	21 (53)	18 3/4 (48)	2 1/8 (5)	12	1 1/8 (2.9)	23 (58)	20 1/4 (51)	2 1/8 (5)	20	1 1/4 (3.2)

TAPPED OPENINGS

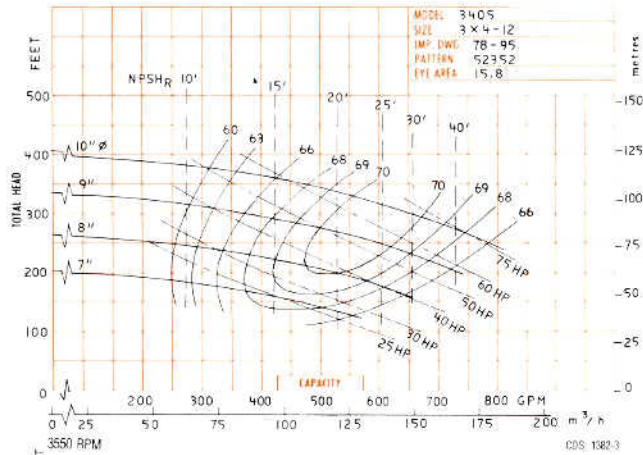
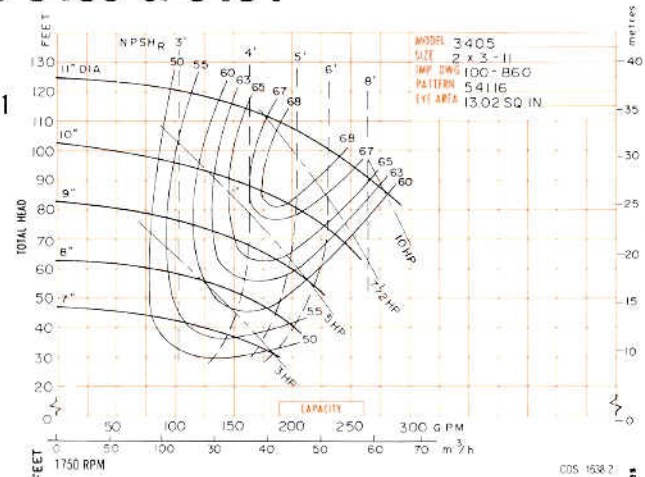
Purpose	No. of Taps	Tap Sizes		
		S	M	L
Suction Chamber Vent	2	1/2 (1.3)	3/4 (1.9)	
Stuffing Box Seal Ring Connection	2		1/4 (.64)	
Gland Quenching Connection	4		1/4 (.64)	
Stuffing Box Overflow Connection	2		3/4 (1.9)	
Casing Vent	1		1/4 (.64)	
Bearing Cooling Outlet (When furnished)	2		3/8 (.95)	
Bearing Cooling Inlet (When furnished)	2		3/8 (.95)	
Gauge Connections	2		1/4 (.64)	
Casing Drain	2	3/8 (9.5)	3/4 (1.9)	
Casing Priming Connection	1	1/2 (1.3)	3/4 (1.9)	

■ 8x10-17, 6x8-17, 4x6-17, 3x4-17 and 3x4-14 have 1" (25 cm) casing priming connection.

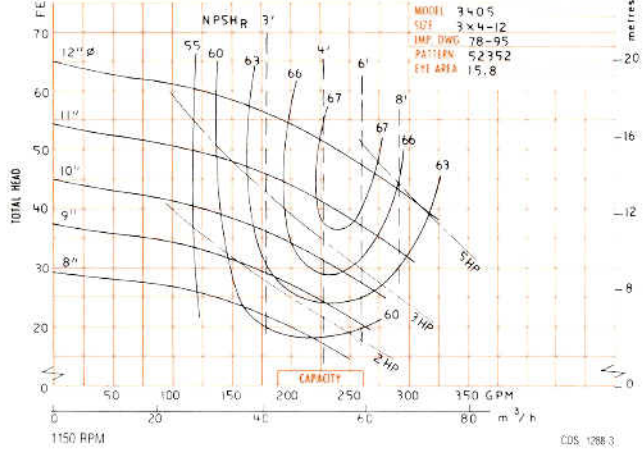
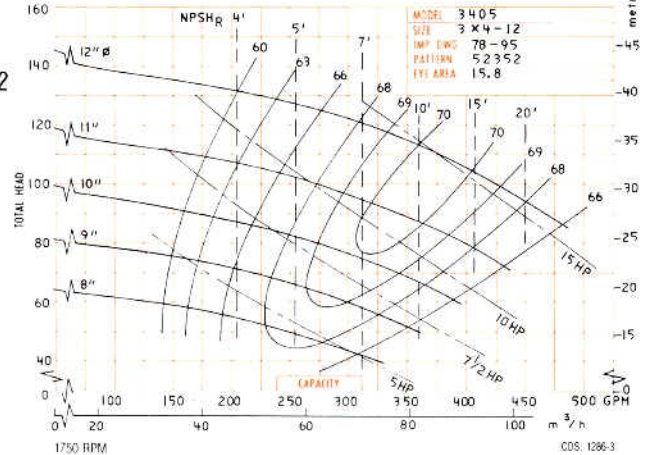
Performance Curves Models 3405 & 3404



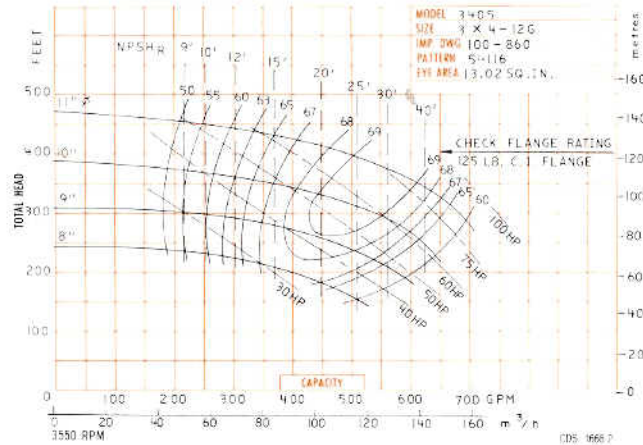
S
2 x 3-11



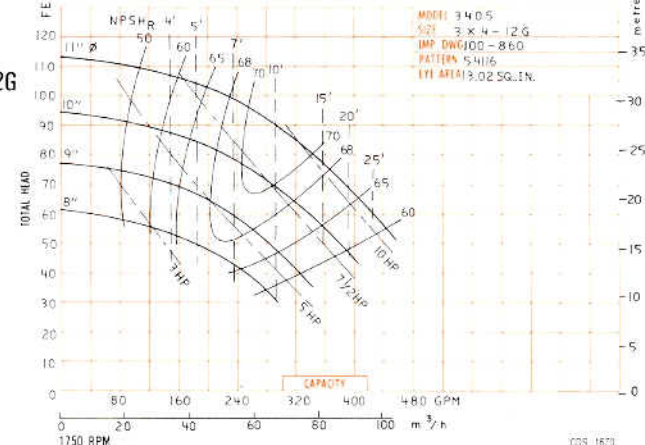
S
3 x 4-12



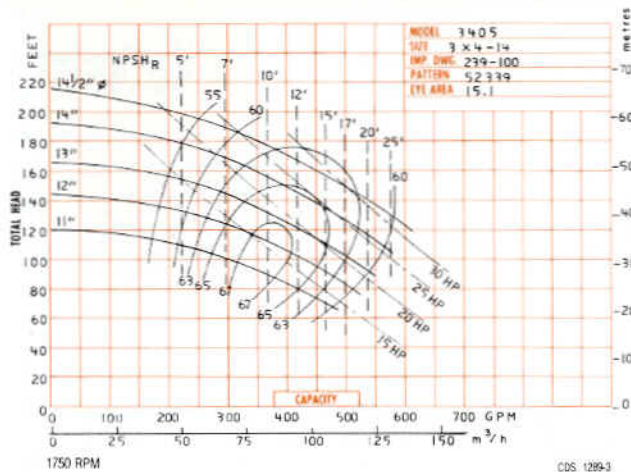
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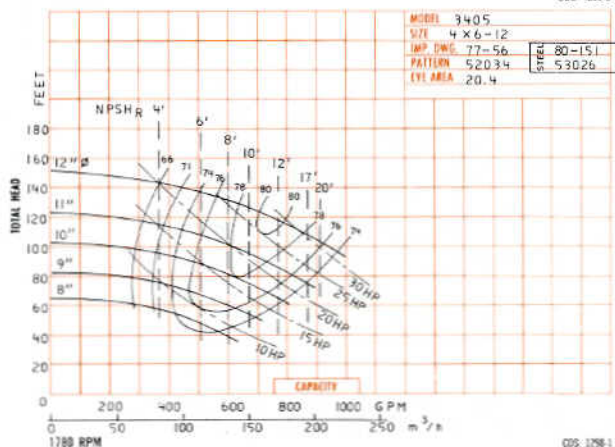
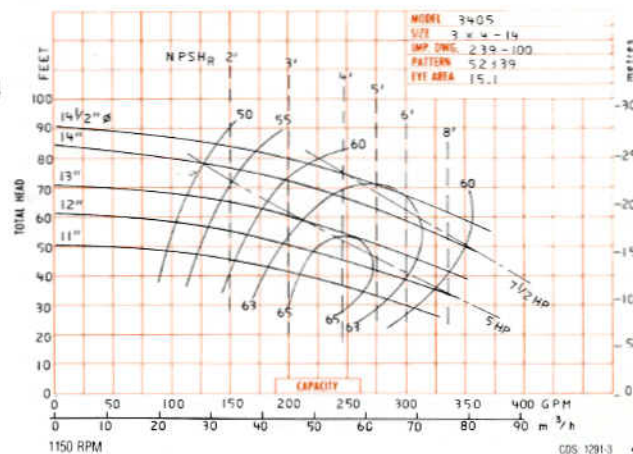
S
3 x 4-12G



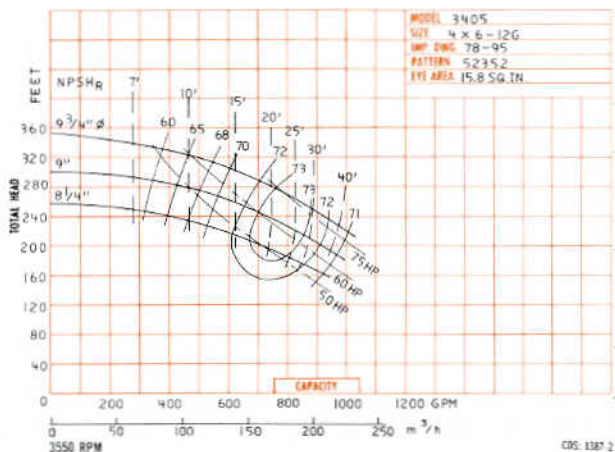
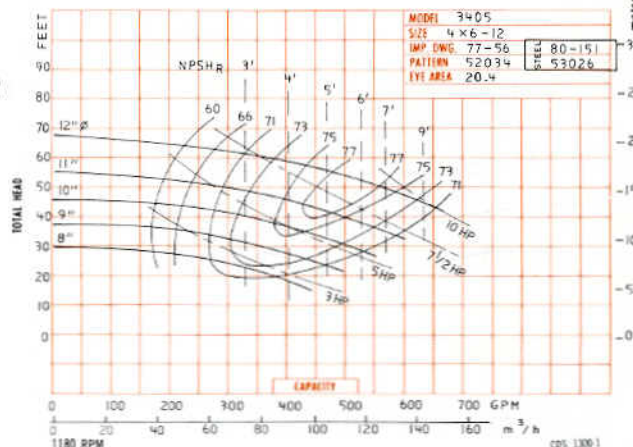
Performance Curves Models 3405 & 3404



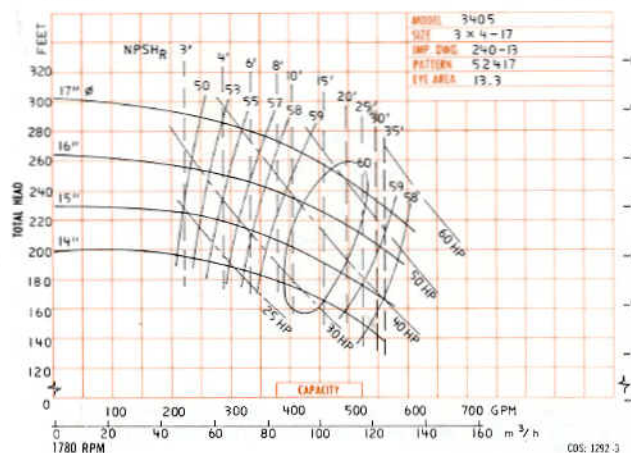
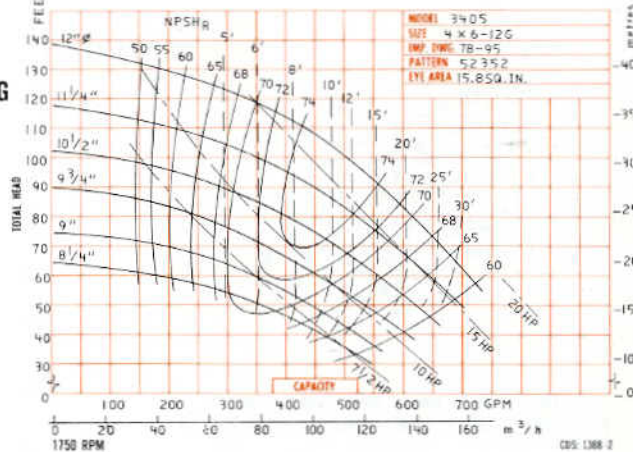
S
 3 x 4-14



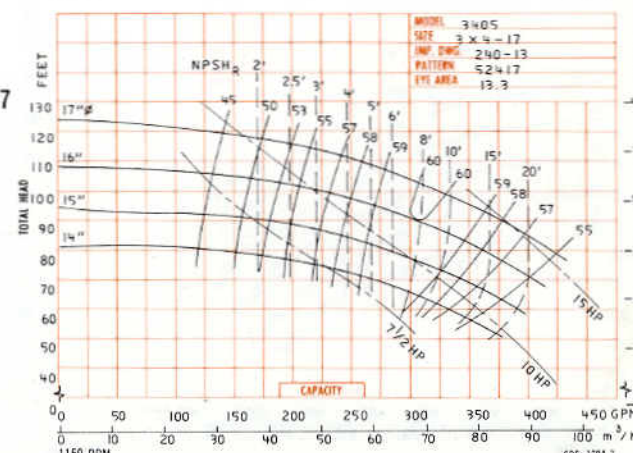
S
 4 x 6-12



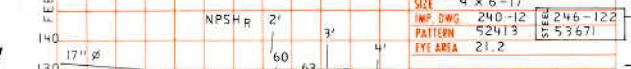
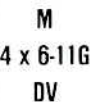
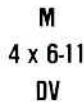
S
 4 x 6-12G



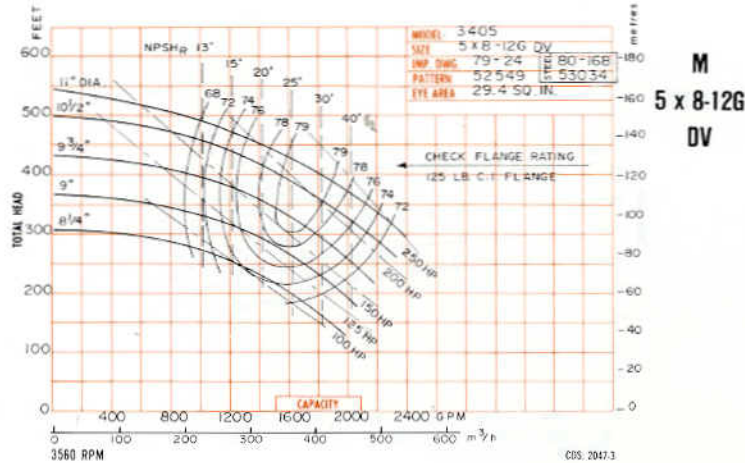
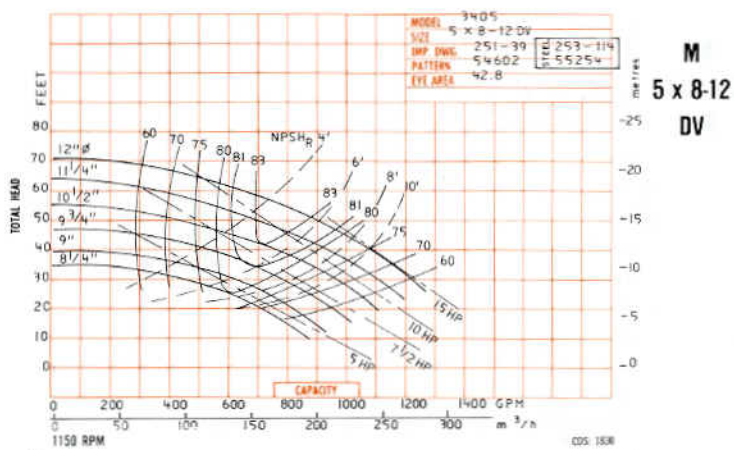
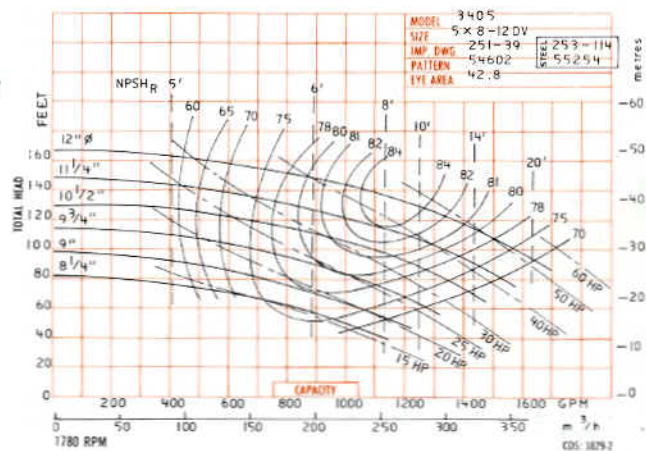
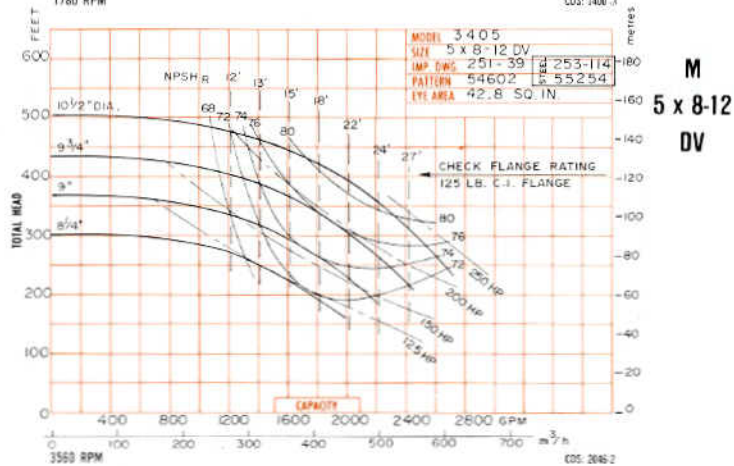
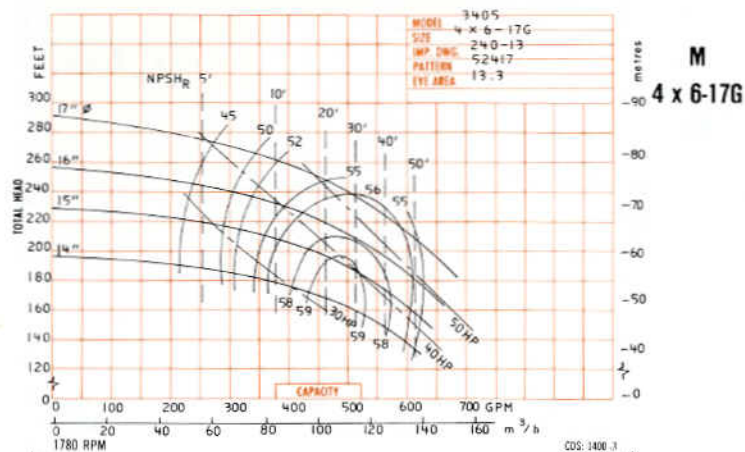
M
 3 x 4-17



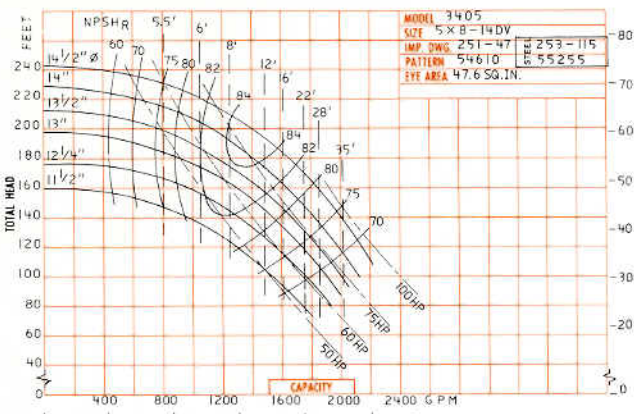
Performance Curves Models 3405 & 3404



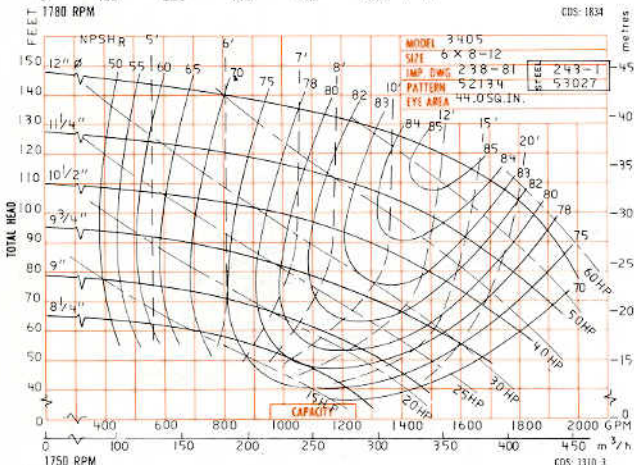
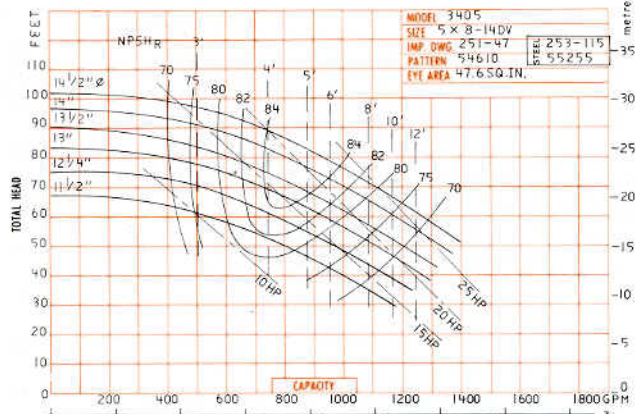
Performance Curves Models 3405 & 3404



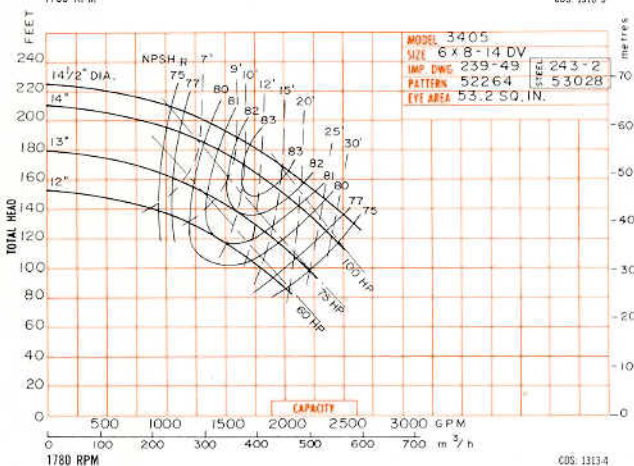
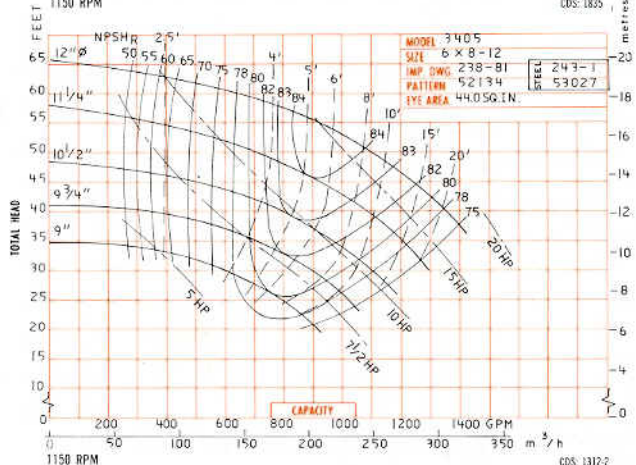
Performance Curves Models 3405 & 3404



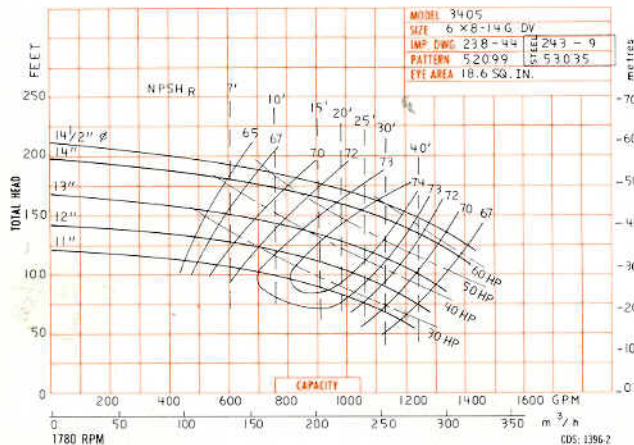
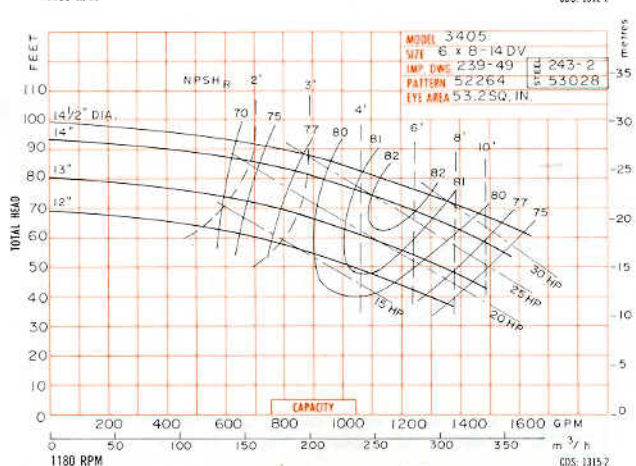
M
5 x 8-14
DV



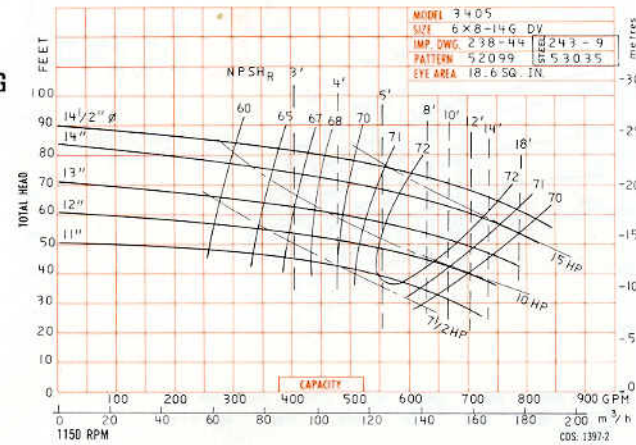
M
6 x 8-12



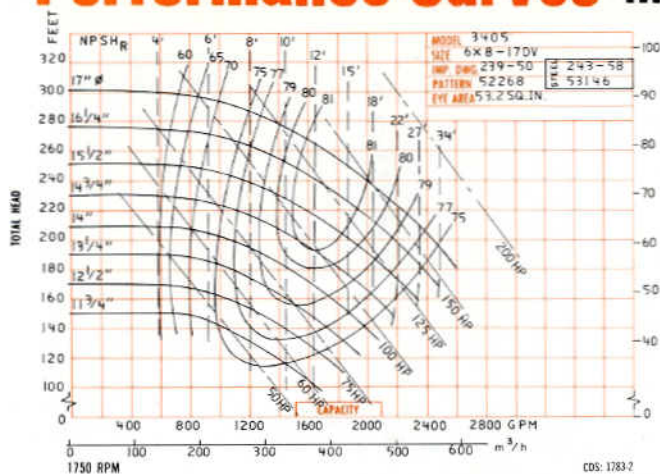
M
6 x 8-14
DV



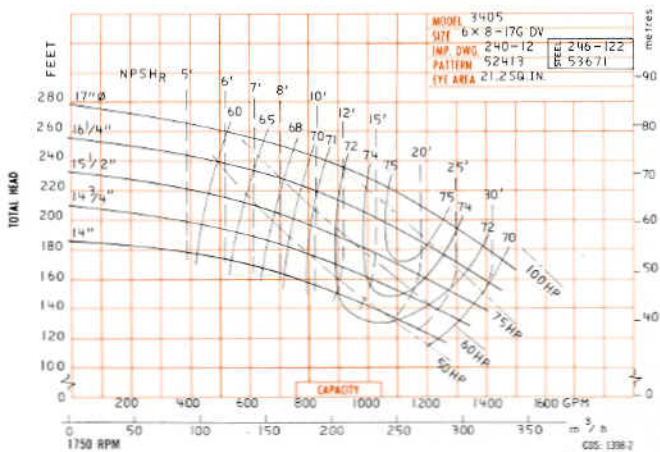
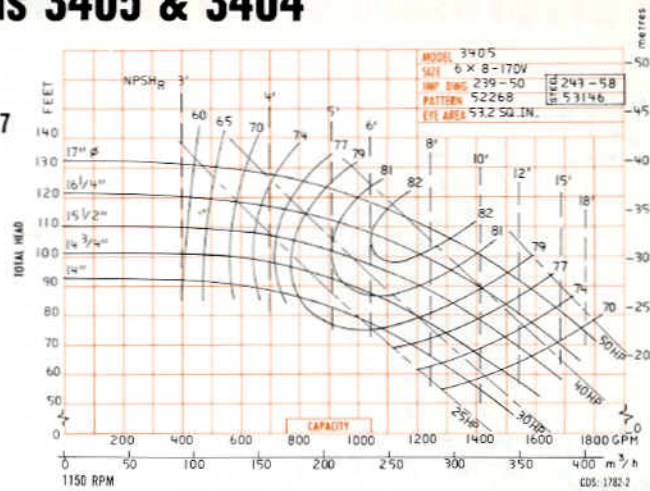
M
6 x 8-14G
DV



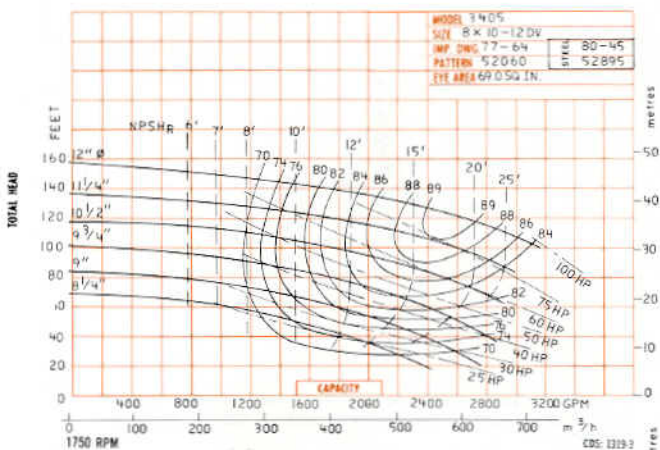
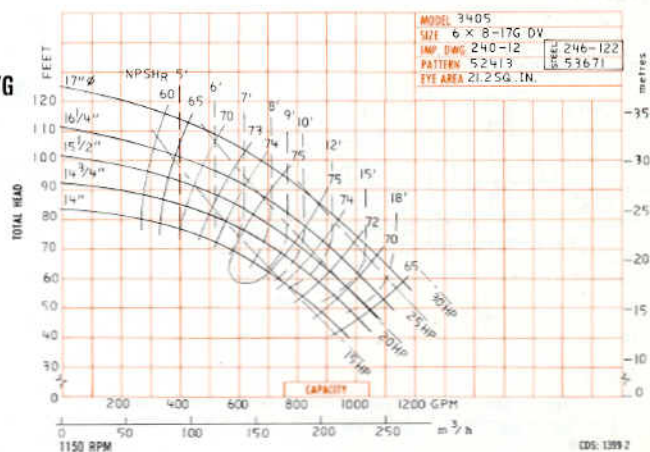
Performance Curves Models 3405 & 3404



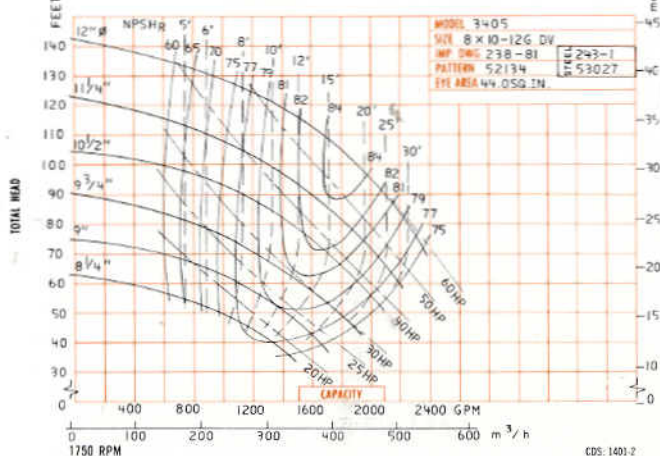
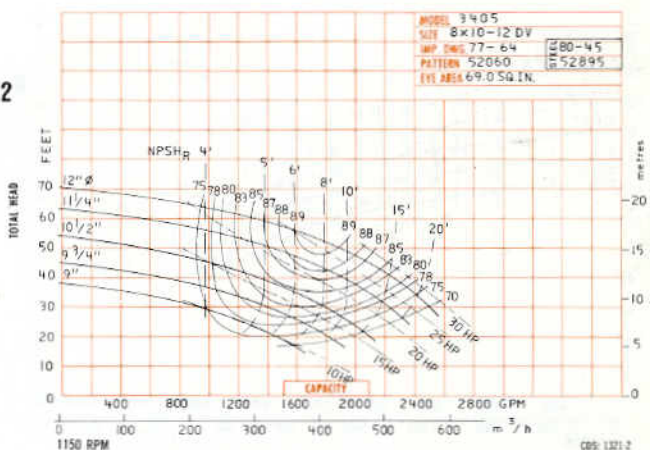
M
6 x 8-17
DV



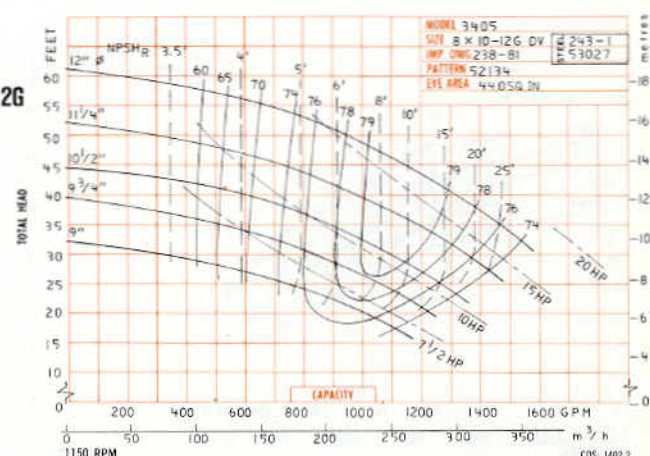
M
6 x 8-17G
DV



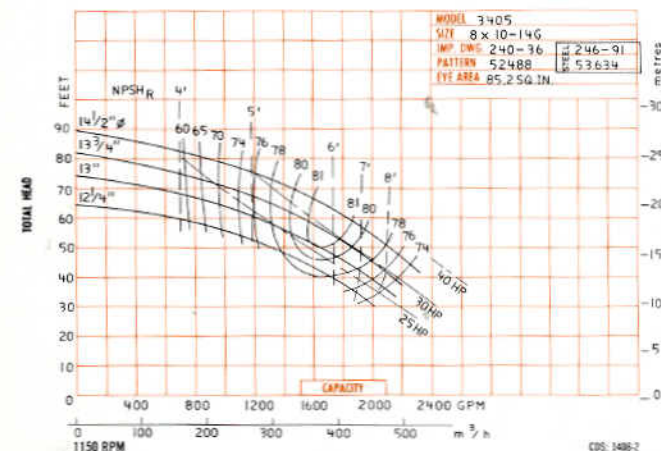
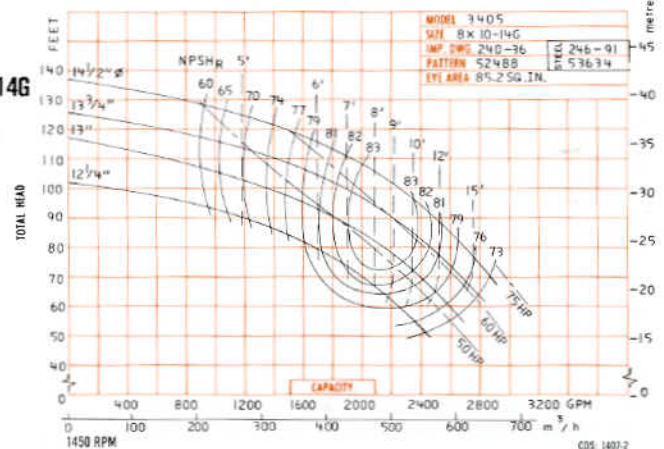
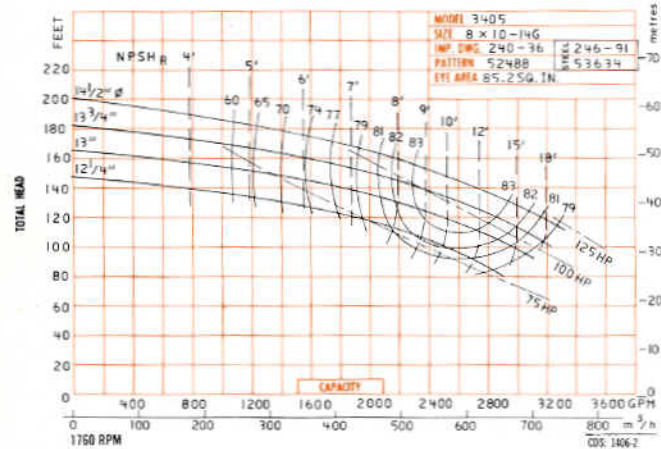
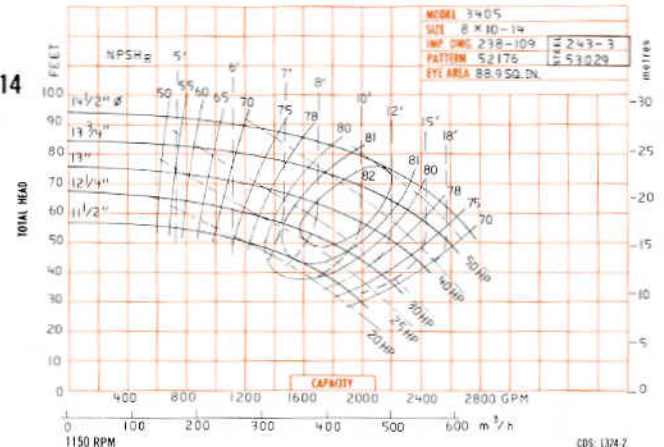
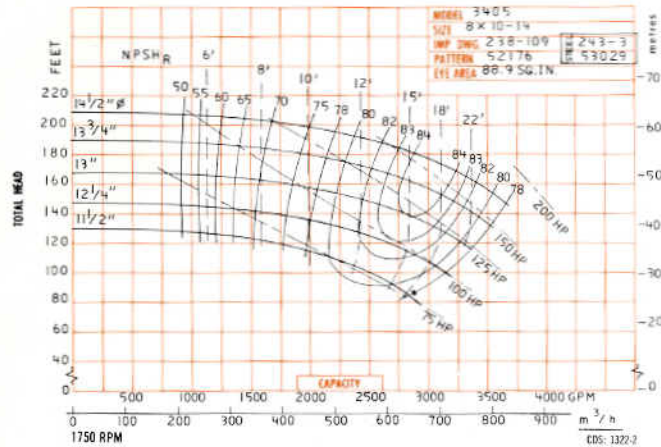
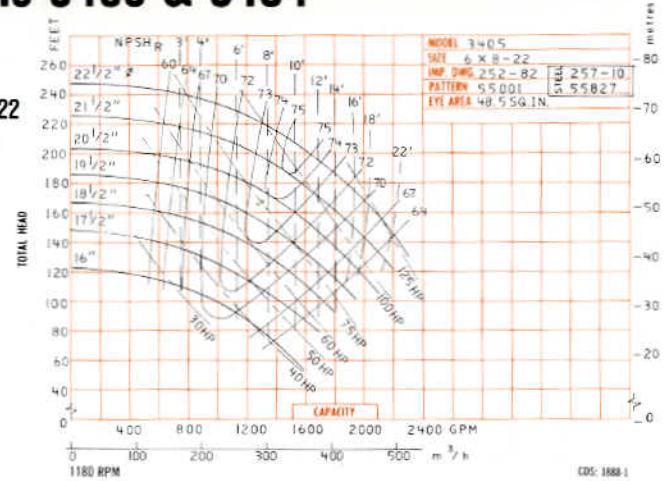
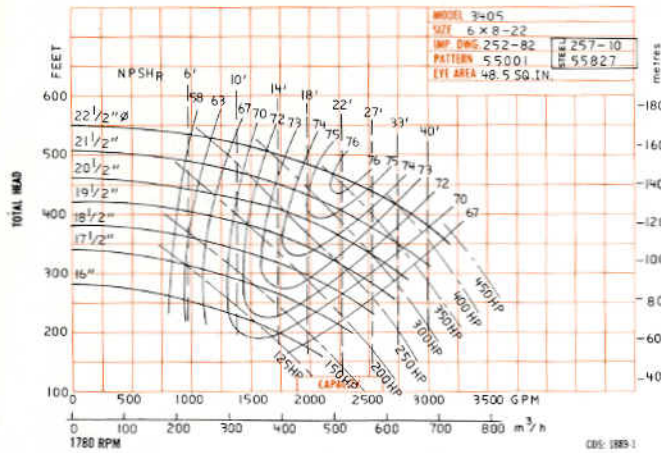
M
8 x 10-12
DV



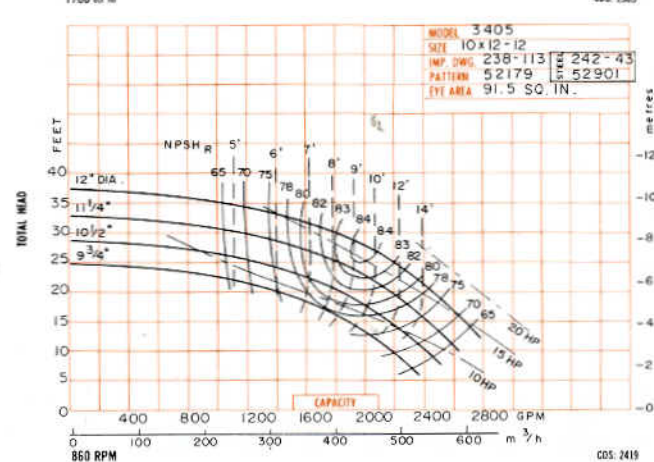
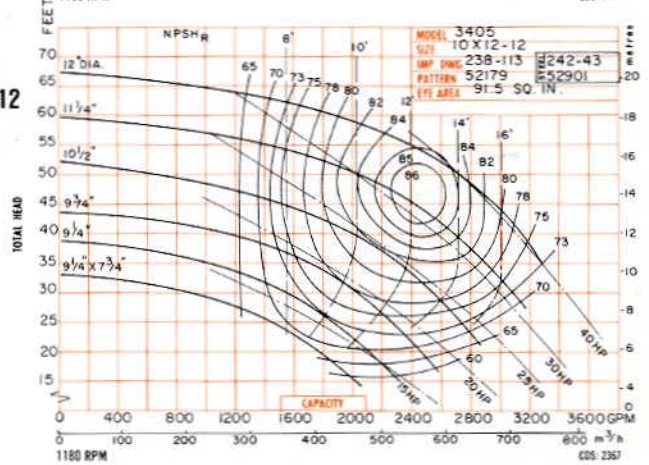
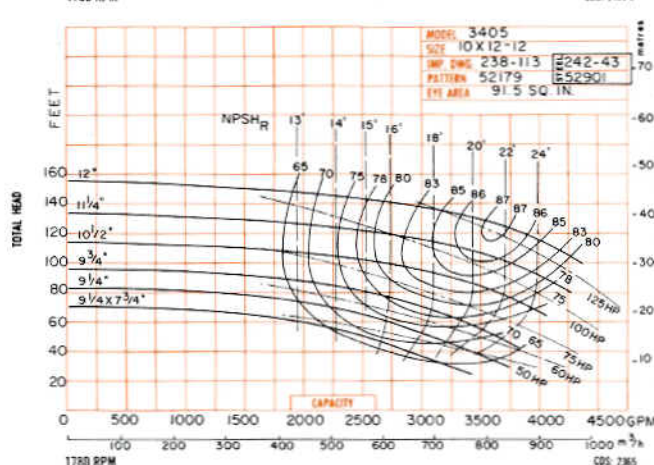
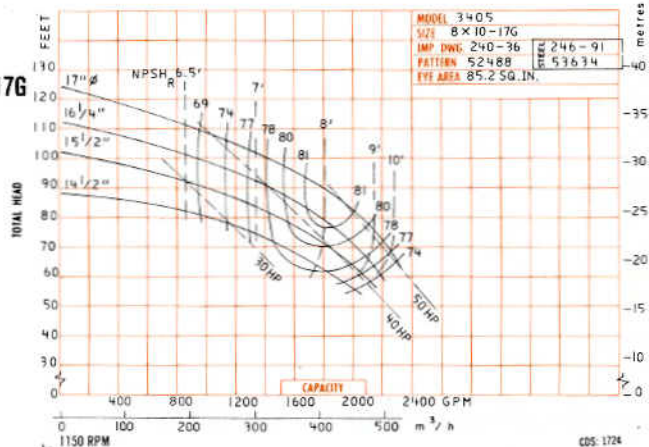
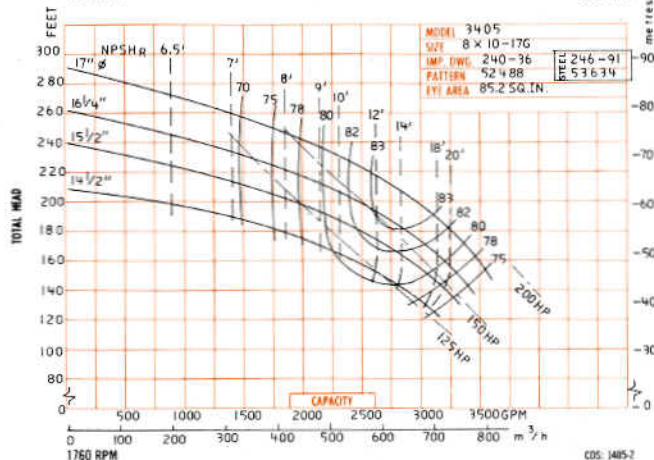
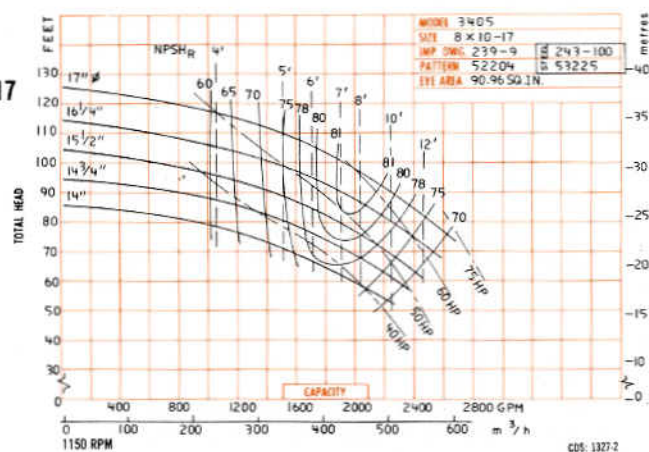
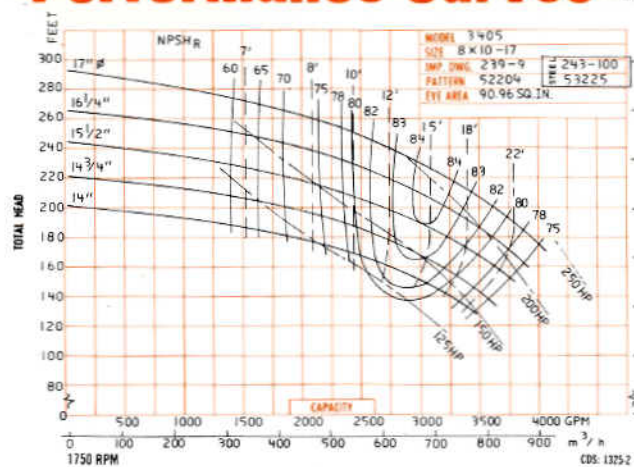
M
8 x 10-12G
DV



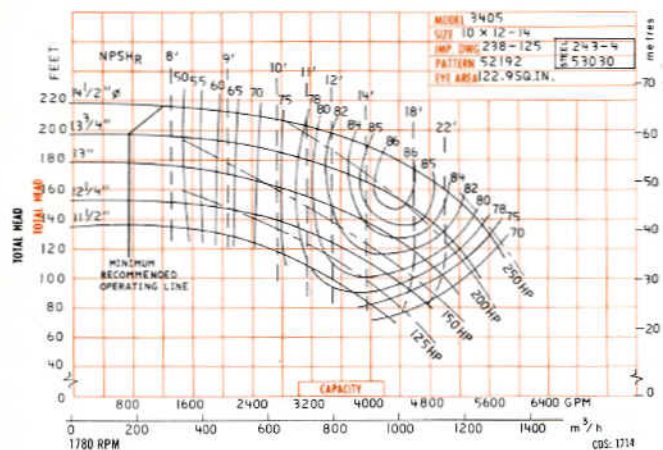
Performance Curves Models 3405 & 3404



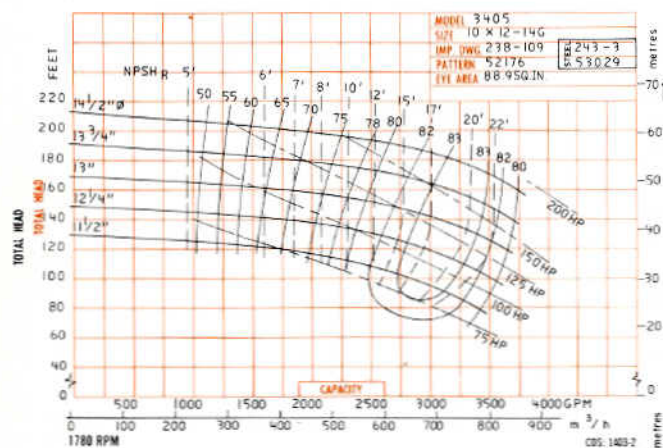
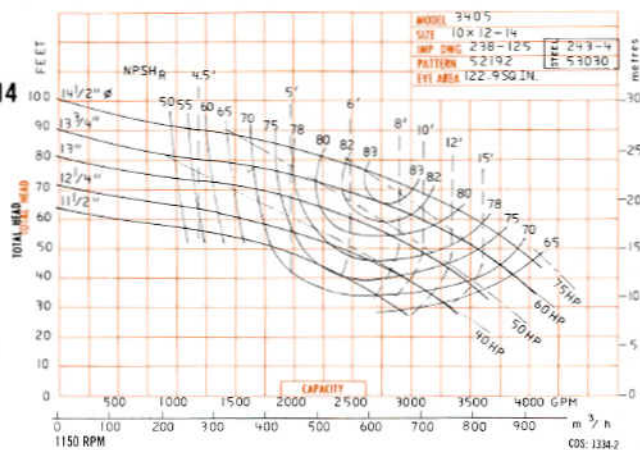
Performance Curves Models 3405 & 3404



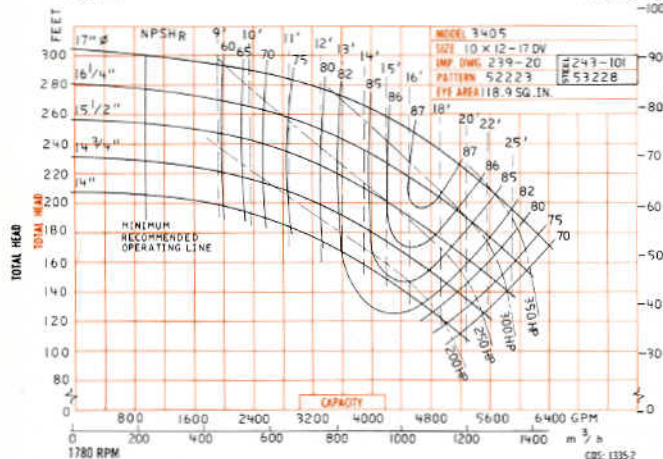
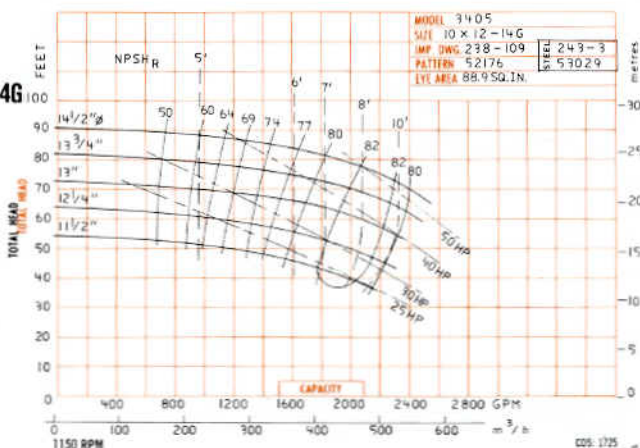
Performance Curves Models 3405 & 3404



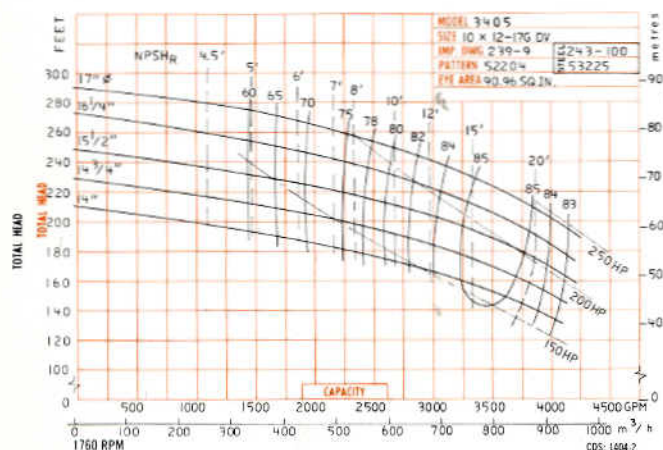
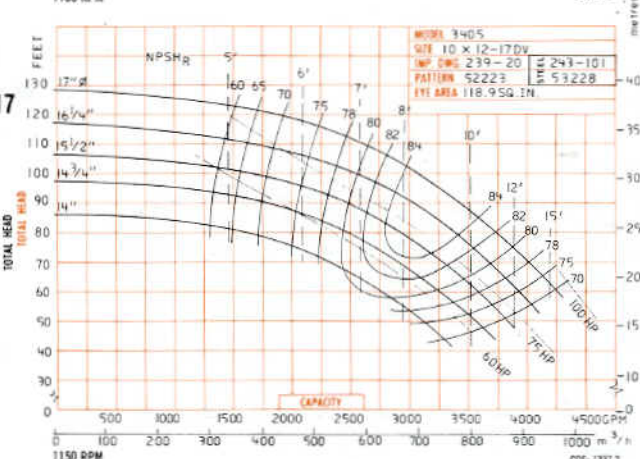
L
 10 x 12-14



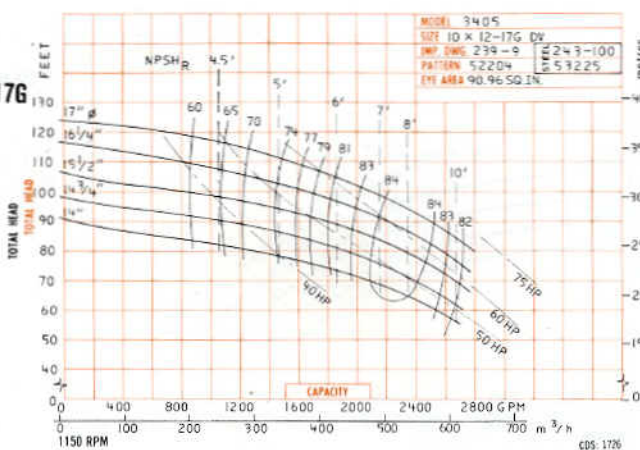
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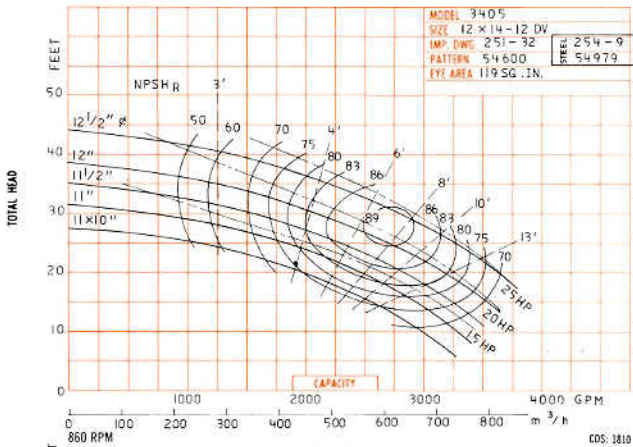
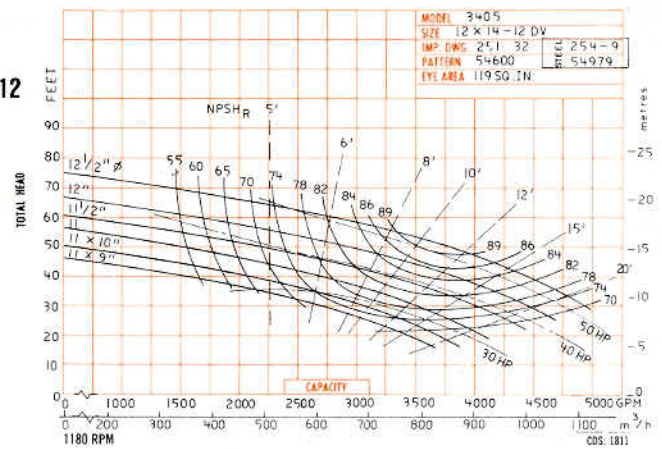
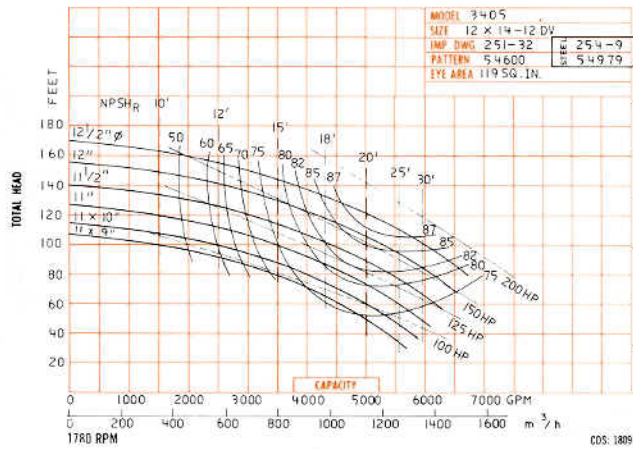
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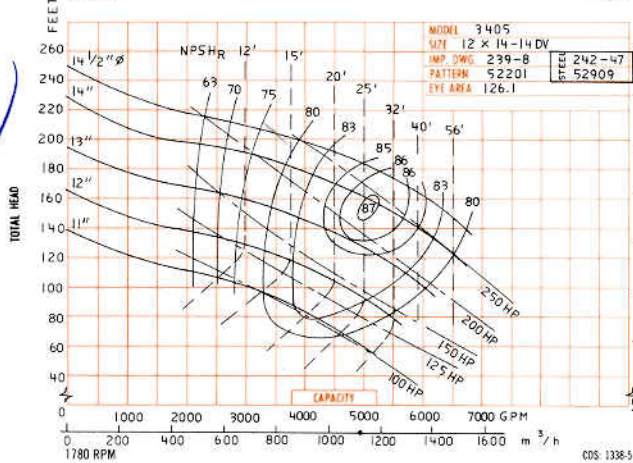
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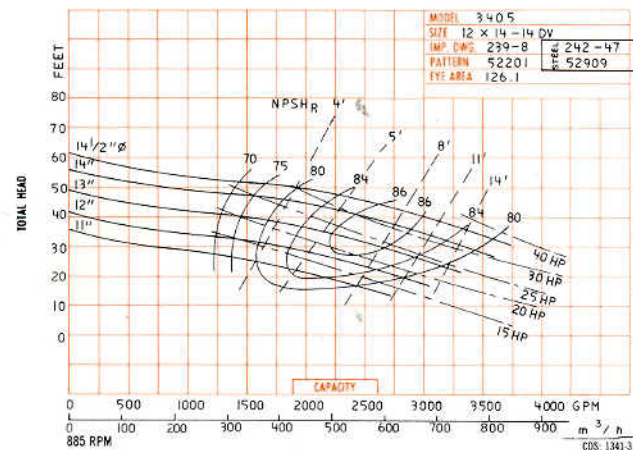
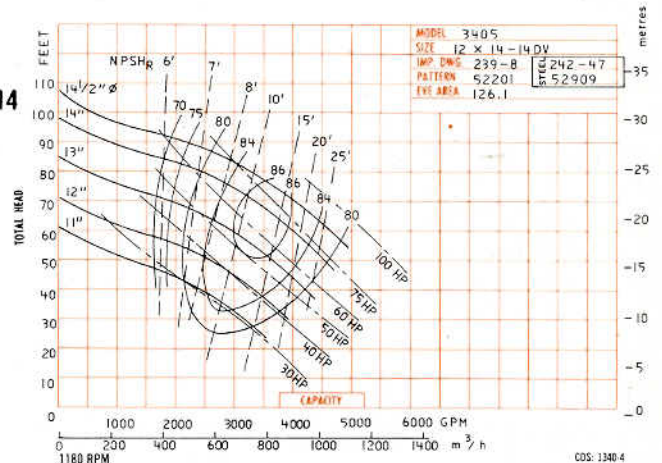
Performance Curves Models 3405 & 3404



L
 12 x 14-12
 DV



L
 12 x 14-14
 DV



L
 12 x 14-14
 DV