

Copyright acc.  
to DIN 34.1E

Code : NEW YORK

Type/No. of stages: HGC 4/5

Customer: KSB INC. U S A

$D_2$  (1. stage) [mm]  
 $D_{2 \text{ normal}}$ : 327/12.5  $D_{2 \text{ trimm}}$ : 327/322

Works No.: 2-G24-028 211/1

$D_2$  (2...n stage) [mm]  
 $D_{2 \text{ normal}}$ : 327/12.5  $D_{2 \text{ trimm}}$ : 327/322

Date: 11/26/1993

speed  
[rpm] : 3578

Temperature  
[°F] : 177

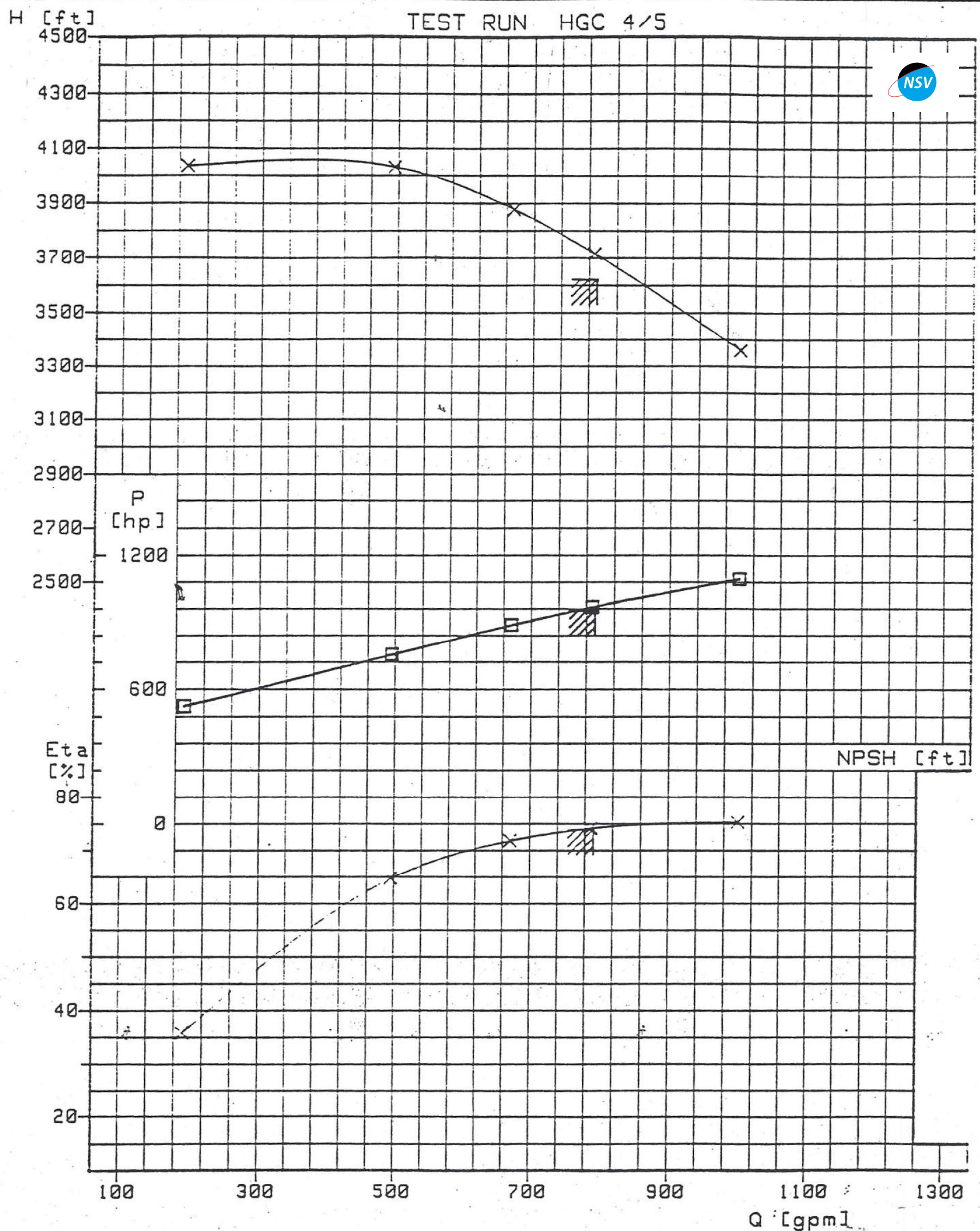
Density  
[lb/cuft] 60.7

Name: G. BRACHMANN

Dept.: EQK

No.:





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to DIN 34.1E

Code : NEW YORK		Type/No. of stages: HGC 4/5	
Customer: KSB INC. U S A		$D_2$ (1. stage) [mm] $D_2$ normal: 327/12.5   $D_2$ trimm: 327/322	
Works No.: 2-G24-028 211/2		$D_2$ (2...n stage) [mm] $D_2$ normal: 327/12.5   $D_2$ trimm: 327/322	
Date: 11/30/1993	speed [rpm]: 3578	Temperature [°F]: 177	Density [lb/cuft]: 60.7
Name: G. BRACHMANN		Dept.: EQK	No.:



## TEST PARAMETERS

11/30/1993

```
Order code.....: Customer.....: KSB INC. U S A
                  Pp-Type/-Stages: HGC 4/5
                  Code.....: NEW YORK
                  KSB serial no...: 2-G24-028 211/2
                  Tolerances to...: HI
```

Test code.....: TEST RUN HGC 4/5

Guaranteed value:		design point
at rated speed	Nn [rpm]	= 3578.00
at density	Rho [lb/cuft]	= 60.68
at temperature	Tss [ F]	= 177.00
capacity	Qg [USgpm]	= 792.00
head	Hg [ft]	= 3620.00
efficiency	Etag [%]	= 73.90
power of the pump	Pp [hp]	= 954.00
power of the mot.	Pm [hp]	= --
NPSH	[ft]	= 25.50
minimum capacity	Qmin [USgpm]	= --
minimum head	Hmin [ft]	= --

```

Constants.....: test speed          Nv [rpm] = 3640.000
                  design capacity     Qa [USgpm] = 791.200
                  number of pump stages [ ] = 5
                  pipe surface roughness Br [ ] = 1.0000000
                  thermal expan-) steel a1[1/C] = 1.1100E-05
                  sion factor )austenit a2[1/C] = 1.7500E-05
                  pressure loss factor Zeta [ ] = 0.0000000

```

Diameters.....: 1.discharge nozzle Dds1 [mm]= 100.0000  
1.suction nozzle Dss1 [mm]= 150.0000  
impellers vane tips are obliquely cut back

```
Vertical differ.: tapping - reference SS z1 [m] = .750000
                  tapping - reference DS z2 [m] = .550000
                  tapping -indication SS z1' [m] = -.250000
                  tapping -indication DS z2' [m] = -.050000
                  ref SS-center impeller z1 [m] = 0.000000
                  reference SS-ref DS h12 [m] = 0.000000
```

```
Gear.....: number between pump<>motor = 1
              gear no.22 ;designation:AD 40
              i=1:.82192 ; measured : pump speed =1:1
```

Power | motor...: determination input power =  $M_d + D_{rez}$

```
relevant files...: for transmission factors > 'NEWYO211'  
                  for gear data..... > 'Getr22'  
                  for all other data..... > 'xxx_NEWYO2112'  
                                           xxx=programcode
```

**Inspector:**

**Signatures:**

Customer:





Customer :	KSB INC. U S A	Operating Conditions	Serial no :	2-624-028 211/2
Typ / no of stages :	HGC 4/5	n 3578.0 rpm	Frankenthal	11/30/1993
Code :	NEW YORK	t 177.0 °F	:	
Tolerances to :	HI	p 60.688 lb/cu ft	atm. pressure :	14.65 psi
Test :	TEST RUN HGC 4/5		measuring point:	1...5

### Measuring results at test speed

[illegible]

### Conversion to Operating Conditions

[illegible]

Inspector:

**Signatures:**

Customer: