

# ISOspec<sup>®</sup>

DAVEY

CF Series Bareshaft Pumps  
CM Series Motor Pumps

ISO2858 Heavy Duty Industrial Centrifugal Pumps

DEPEND ON

# DAVEY

## WATER PRODUCTS



electric motors, generators, trailing cables & pumps - sales, service & repairs

571 Grand Junction Road Gepps Cross, SA 5094

 (08) 8162 5957  
including after hours emergencies

Fax: (08) 8162 5058  
info@aemgroup.net.au  
www.aemgroup.net.au



# TECHNICAL SPECIFICATIONS

The Davey ISOspec® range has been designed to international standard **ISO2858** ensuring a sturdy & reliable, long lasting, high performing product that consumers have come to depend on from Davey.

## *Suitable Applications*

### **Water Supply**

Commercial irrigation, booster stations, municipal water supply, flood irrigation, general transfer.

### **Industry**

Cooling tower transfer, refrigeration systems, commercial fountains, condensate recovery, dairy wash down packages.

### **Environmental**

Dust suppression in mining & quarry applications, fume scrubbers for odour control, water treatment transfer & filtration.

### **Leisure**

Water circulation in large aquatic centres, backwash filtration in commercial pools, water features & commercial fountains.

### **Building Services**

Commercial heating, air conditioning systems, pressure boosting, cooling tower & fire service applications.

### **Pumped Liquids**

Non aggressive & non combustible liquids. Clean low viscous liquids free of fibres or particles.

## *Operating Conditions*

### **CF Series Bareshaft Pumps**

Maximum flow	900m <sup>3</sup> /hr
Maximum total heads	160m
Liquid temperature*	-15 to 140°C
Operating pressure	16 Bar

\* With optional high temperature seal.

### **CM Series Motor Pumps**

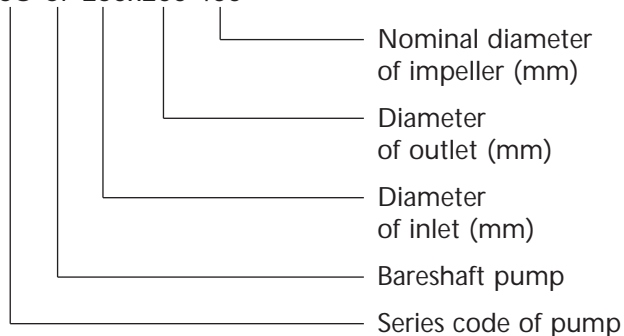
Maximum flow	410m <sup>3</sup> /hr
Maximum total heads	160m
Liquid temperature*	-15 to 140°C
Operating pressure	16 Bar

\* With optional high temperature seal.

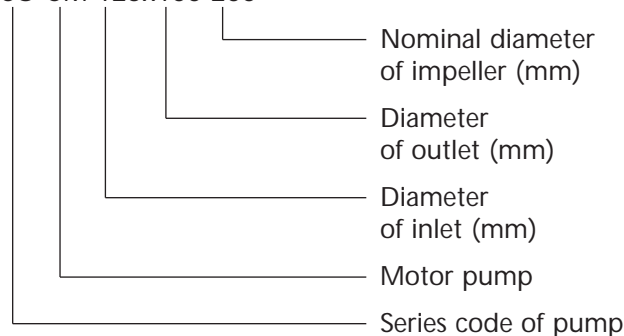
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## *Model Designation (Examples)*

ISO CF 250x200-400



ISO CM 125x100-200



The Davey ISOspec® Series is comprised of 29 standard sizes. Pumps with different impeller diameters and speeds are available to satisfy various performance ranges. Performance curves within this catalogue are in compliance with ISO2858 standards.

## *Design Features*

**Davey ISOspec®** design is in accordance with international standards of **ISO2858**, which means ISOspec® Series pumps are interchangeable with other similar pumps, conforming to the same standards. This ensures a robust, long lasting, high performing product consumers have come to depend on from Davey.

**Bronze wear rings** - fitted as standard, replaceable front & rear wear rings with optional materials, for a trouble-free lifecycle.

**Bronze impeller** - in a closed design is fitted as standard to prevent corrosion in stationary or inactive situations. Cast 316SS are available on request. The use of 3-D solid model (CAD) Computer Aided Design and (CFD) Computational Fluid Dynamics ensures **high efficiencies**, reducing overall running costs. Impeller diameters can be trimmed to suit specified performance. ISOspec® impellers are dynamically balanced, providing smooth, vibration free operation, preventing premature bearing failure.

**Pump casing** - highly efficient cast iron volute casings, with flanges rated to PN1.6MPa (16bar), drilled to AS2129, Table E. Material options: Ductile Iron, 316SS or 2205SS.

**Casing o-ring** - re-usable o-rings in Nitrile for ease of re-assembly (optional materials available).

**Shaft seal** - single, high quality John Crane or approved equivalent mechanical seal with **carbon vs ceramic** fitted as standard to all ISOspec® Series pumps with other options such as Silicone vs Silicone or high temp also available.

**Tappings** - convenient suction & discharge pressure gauge tappings plus volute drain, fitted as standard to all ISOspec® Series pumps.

**Back pull-out design** - allowing for easy removal of rotating element without disturbing the pipework, lagging or pump volute casing. This is proven to reduce downtime whilst performing routine maintenance.

**CM Series adaptor housing** - heavy duty, flanged to IEC accepting AS 1359 standard designed motors.

**Enlarged shaft** - reduces shaft deflection. Standard in 420SS & 316SS as an option. Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation (CF Series only).

**Stub shaft** - standard in 316SS, attached via a heavy duty muff coupling assembly. Tapered & keyed shaft design allowing ease of removal in maintenance & positive locking whilst in operation (CM Series only).

**CF Bearings** - Heavy duty SKF or approved equivalent, greased for life, reducing maintenance. Protected by a quality manufactured lip seal reducing ingress of moisture or foreign matter. Housed within removable bearing cap cover assembly (CF Series only).

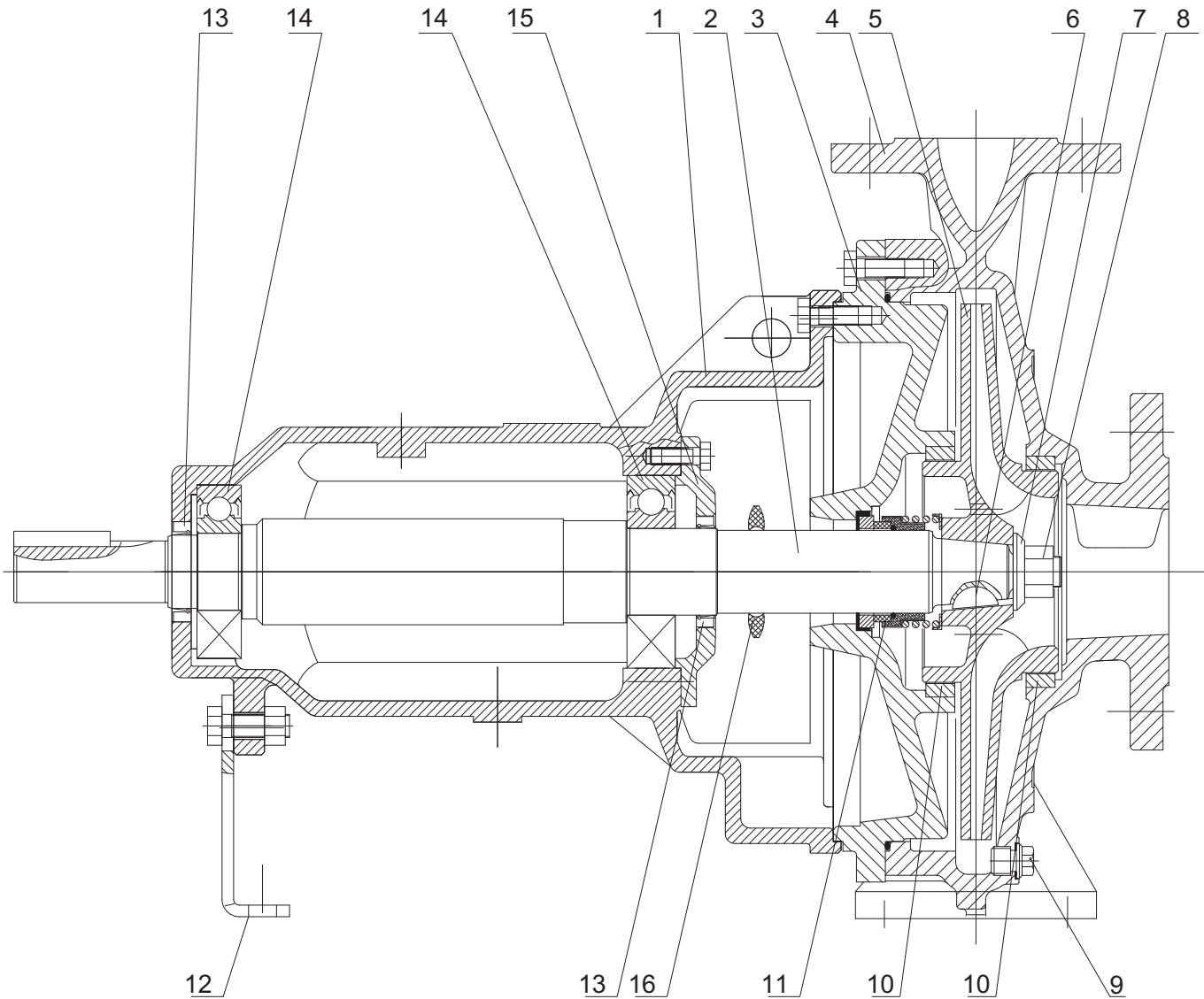
**CF Series bearing housing** - Robust / heavy duty, manufactured in high strength cast iron providing trouble-free life cycle.

**CM Series Motors** - All motors are MEPS compliant ensuring minimum efficiency requirements to AS/NZS 1359.5.2000. IP55, TEFC (totally enclosed fan cooled), insulation class F, temperature rise class B, 415V, 50Hz. Other voltages available upon request.

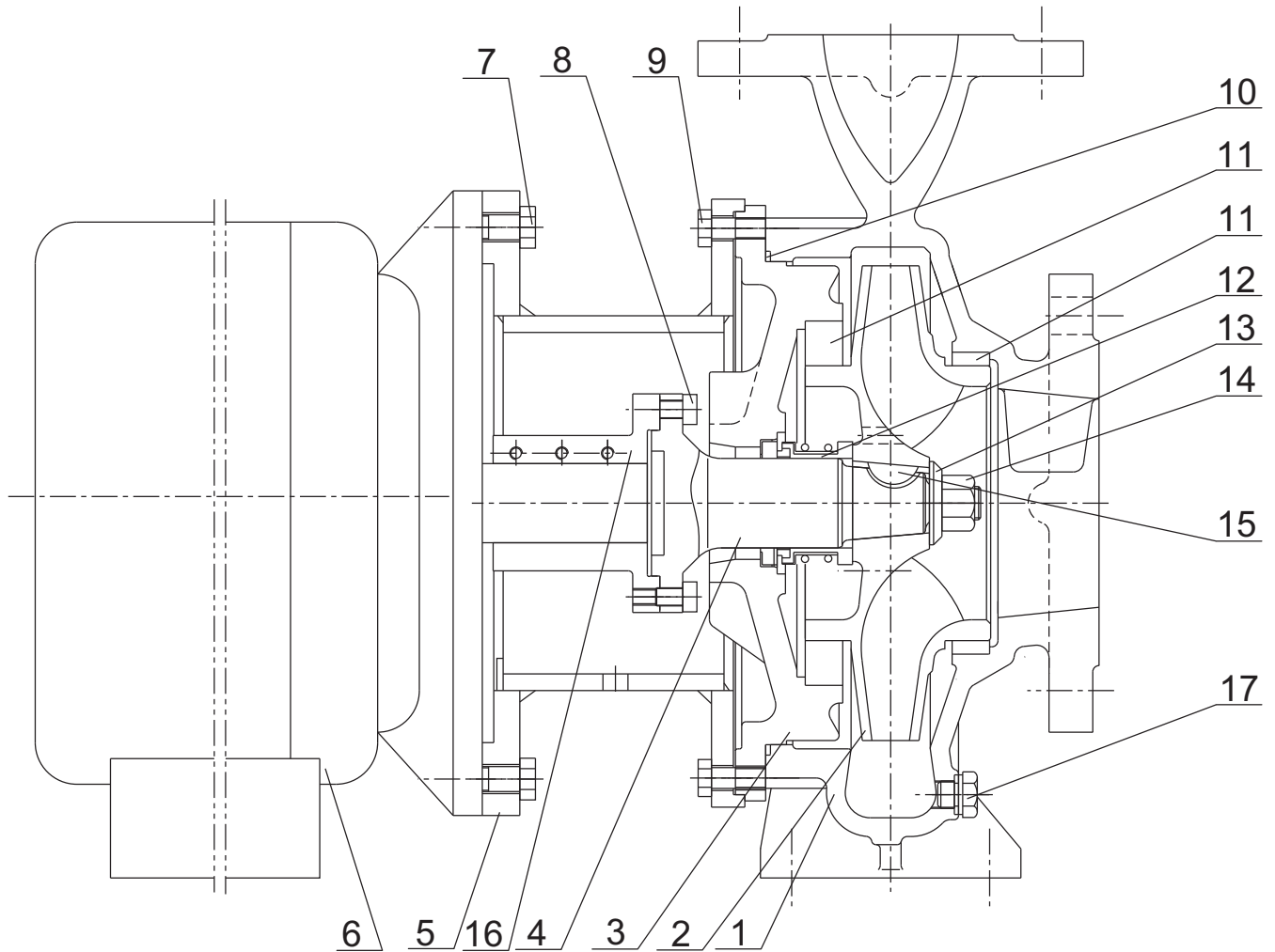
# TECHNICAL SPECIFICATIONS

**ISO** **DAVEY**  
*spec*

*CF Series Arrangement*



- |                      |                           |                          |
|----------------------|---------------------------|--------------------------|
| 1. Bearing housing   | 2. Shaft                  | 3. Rear casing cover     |
| 4. Pump casing       | 5. Impeller               | 6. Impeller key          |
| 7. Impeller washer   | 8. Impeller nut           | 9. Volute drain plug     |
| 10. Bronze wear ring | 11. Mechanical shaft seal | 12. Bearing housing foot |
| 13. Bearing lip seal | 14. Bearing               | 15. Bearing cap          |
| 16. Water slinger    |                           |                          |

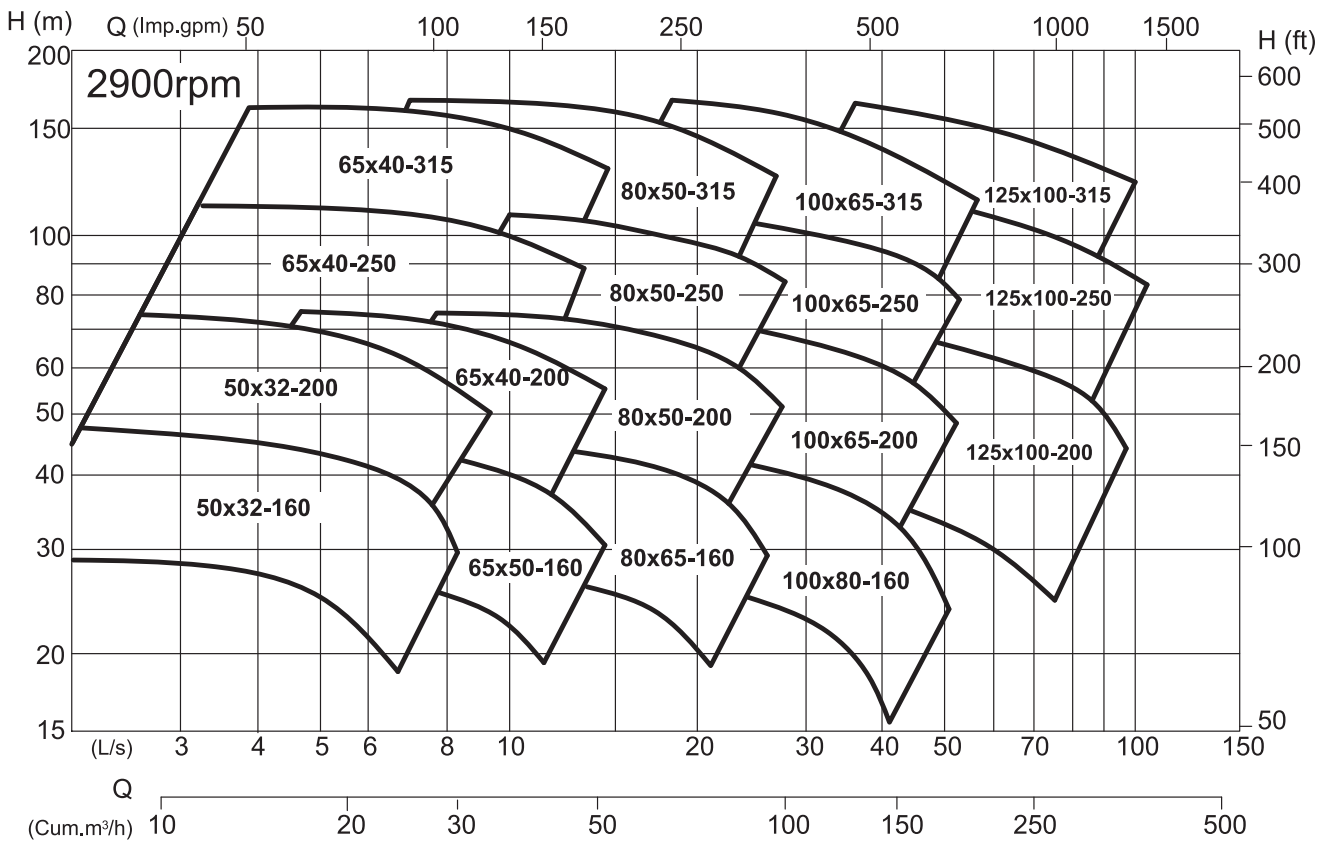
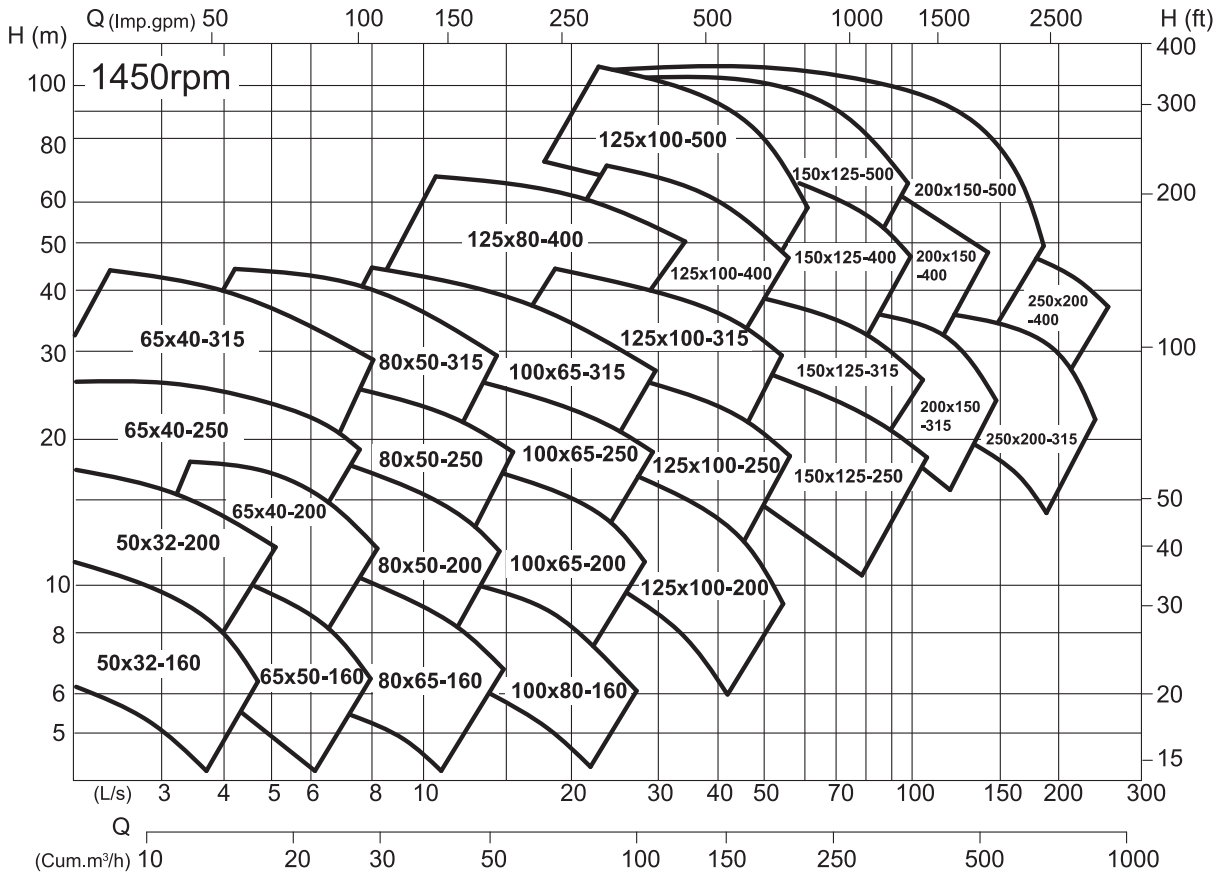


- |                     |                       |                           |
|---------------------|-----------------------|---------------------------|
| 1. Pump Casing      | 2. Impeller           | 3. Rear Casing Cover      |
| 4. Stub Shaft       | 5. Bell Housing       | 6. Motor                  |
| 7. Bolt             | 8. Bolt               | 9. Bolt                   |
| 10. O-ring          | 11. Bronze Wear Ring  | 12. Mechanical Shaft Seal |
| 13. Impeller Washer | 14. Impeller Nut      | 15. Impeller Key          |
| 16. Muff Coupling   | 17. Volute Drain Plug |                           |

# TECHNICAL SPECIFICATIONS



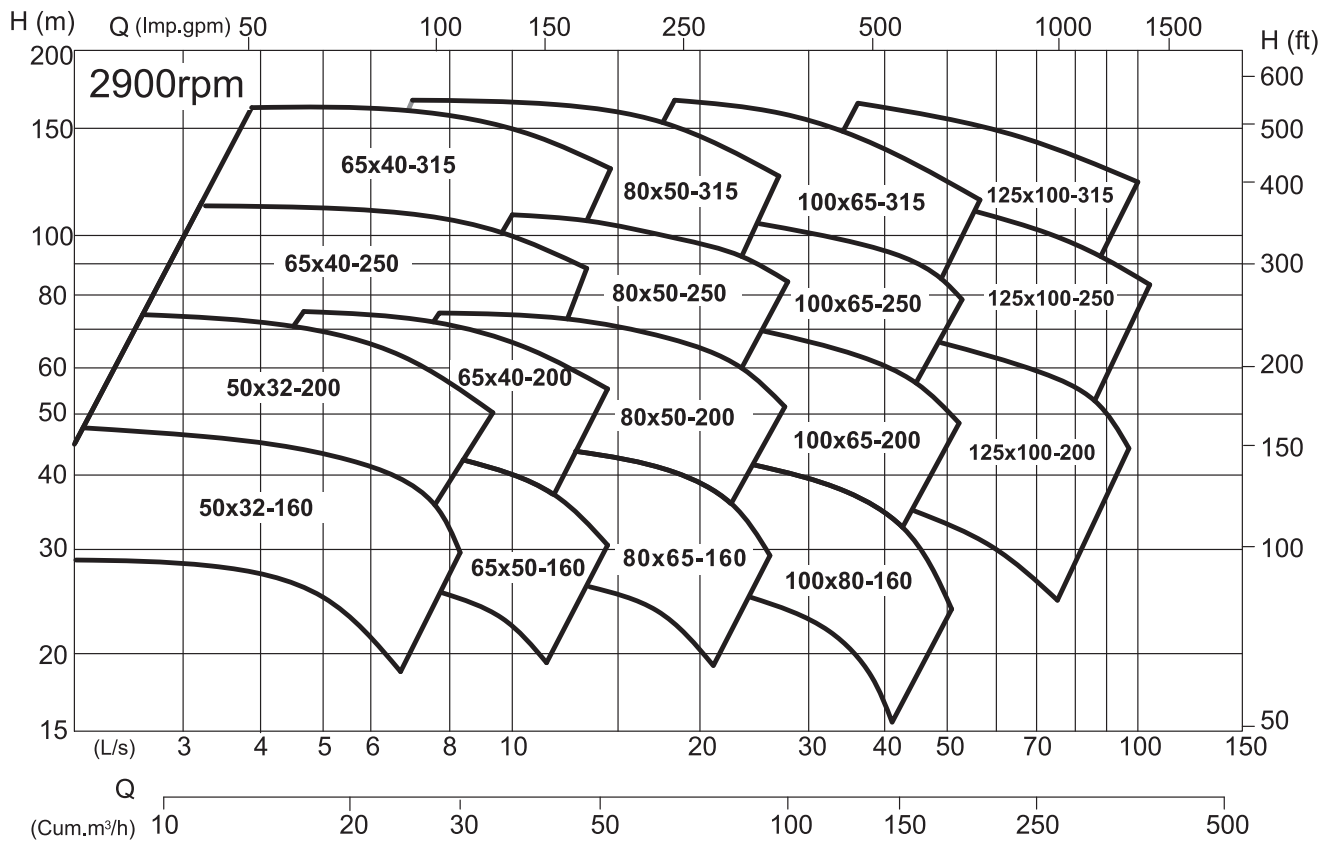
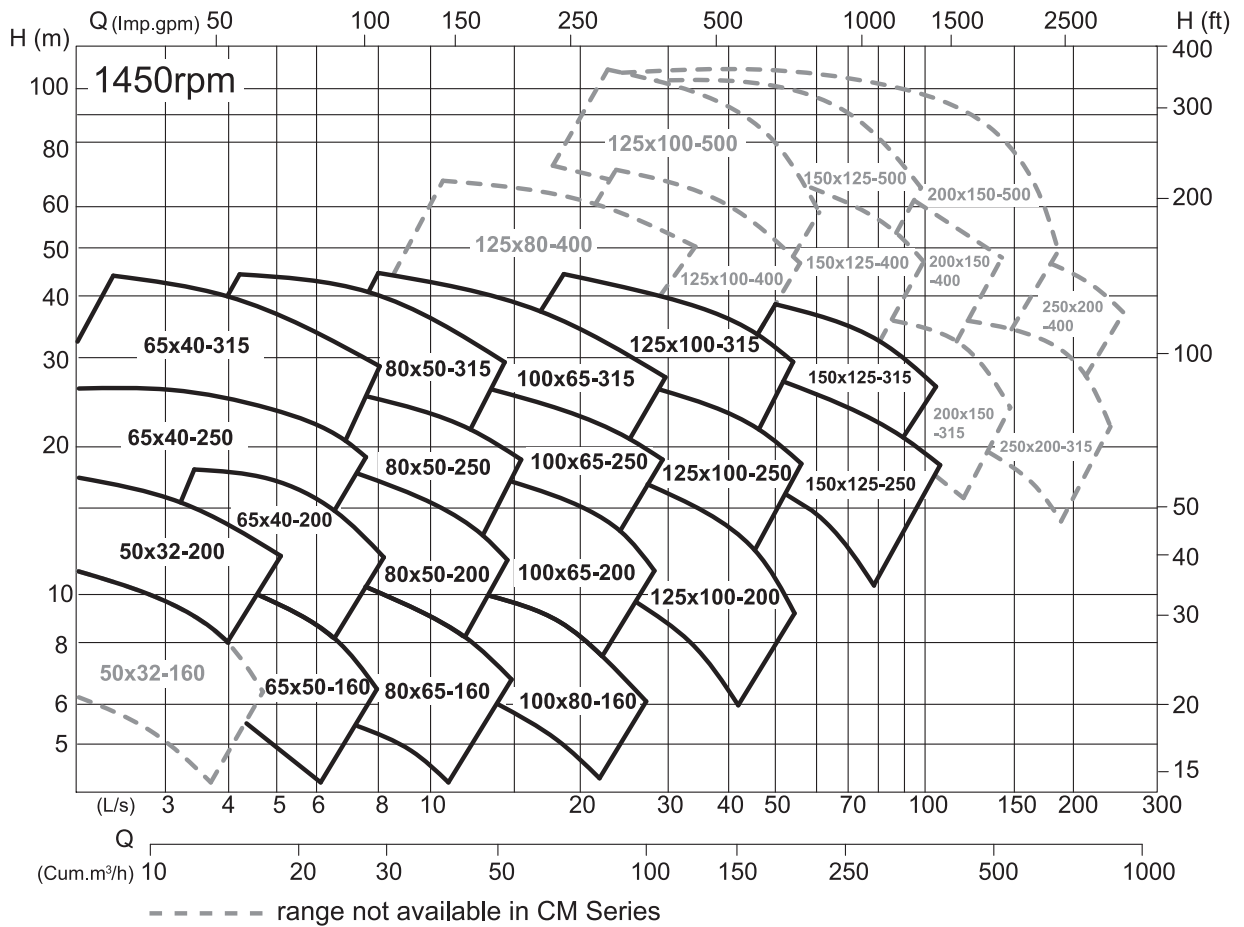
## CF Series Performance Range



# TECHNICAL SPECIFICATIONS



## CM Series Performance Range

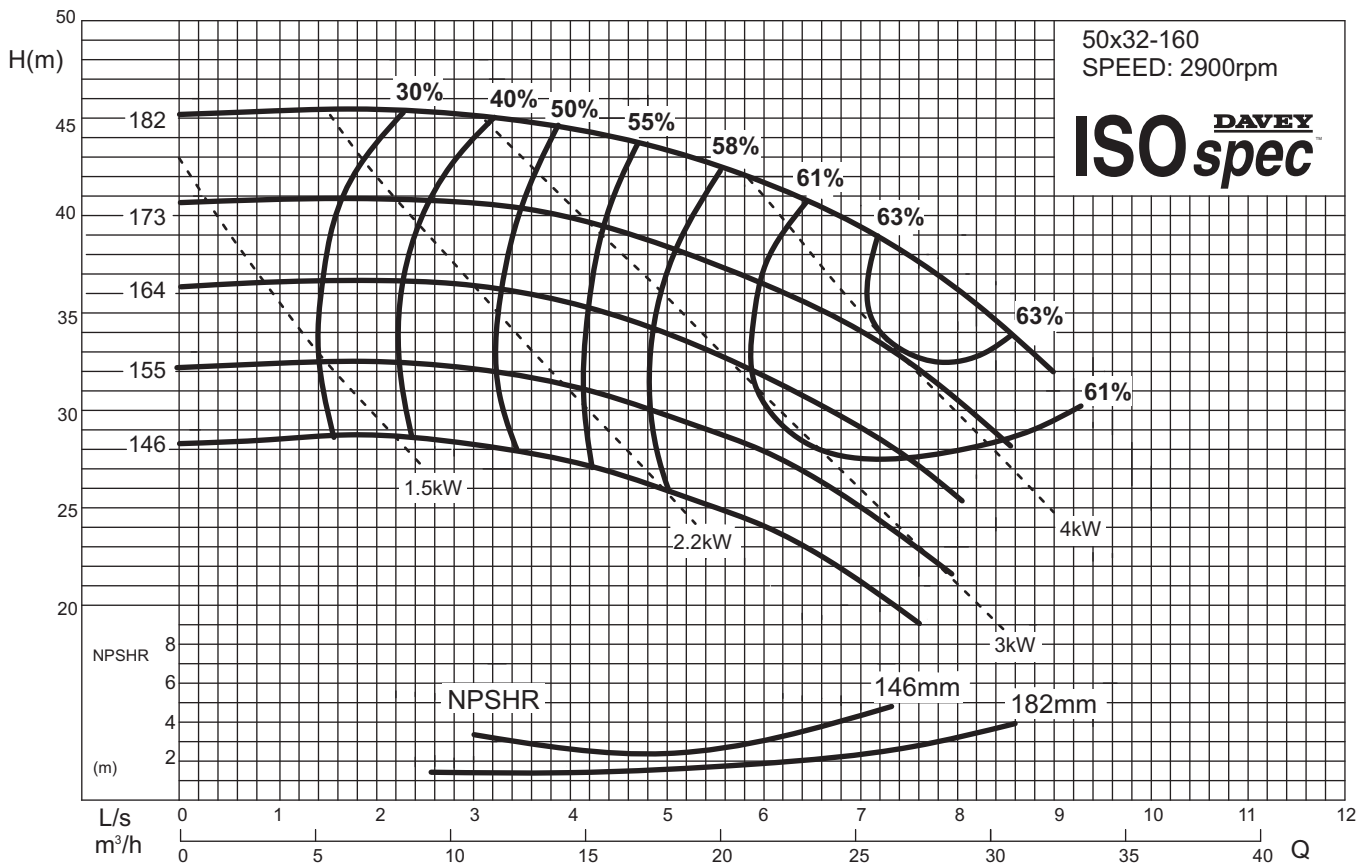
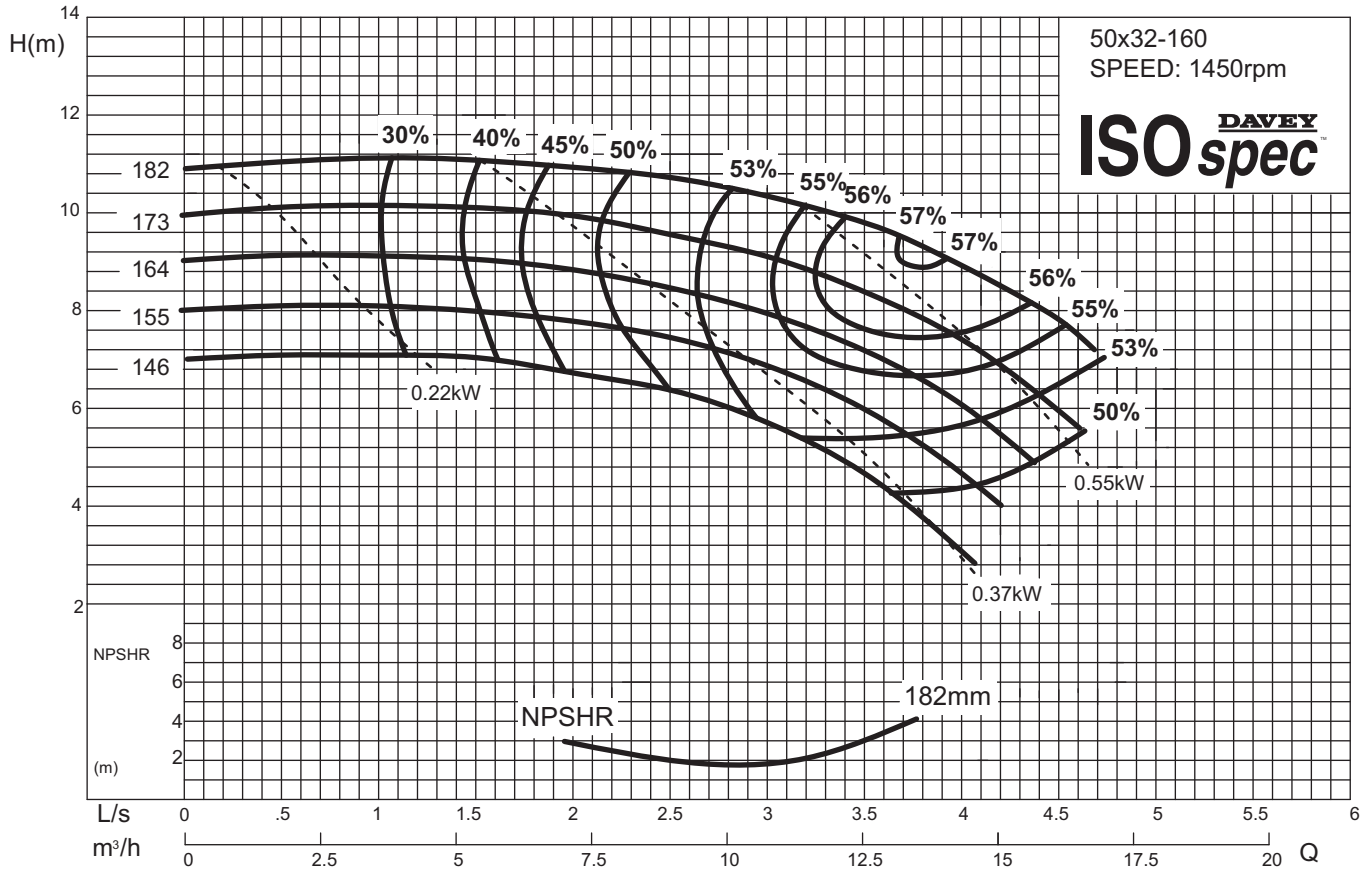


# TECHNICAL SPECIFICATIONS



## CF & CM Series Performance Curve 50x32-160

CM not available in 4 Pole, 1450rpm

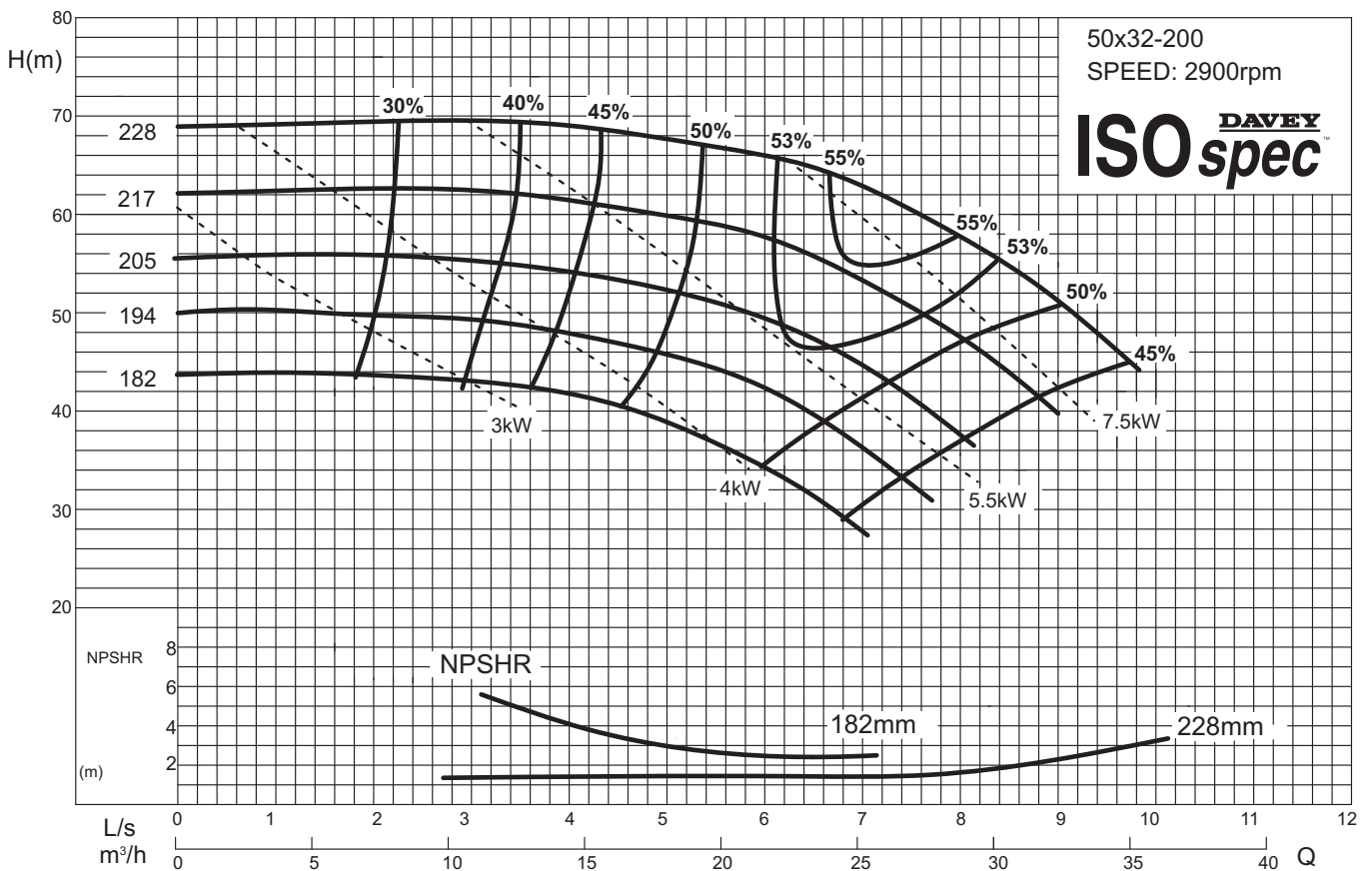
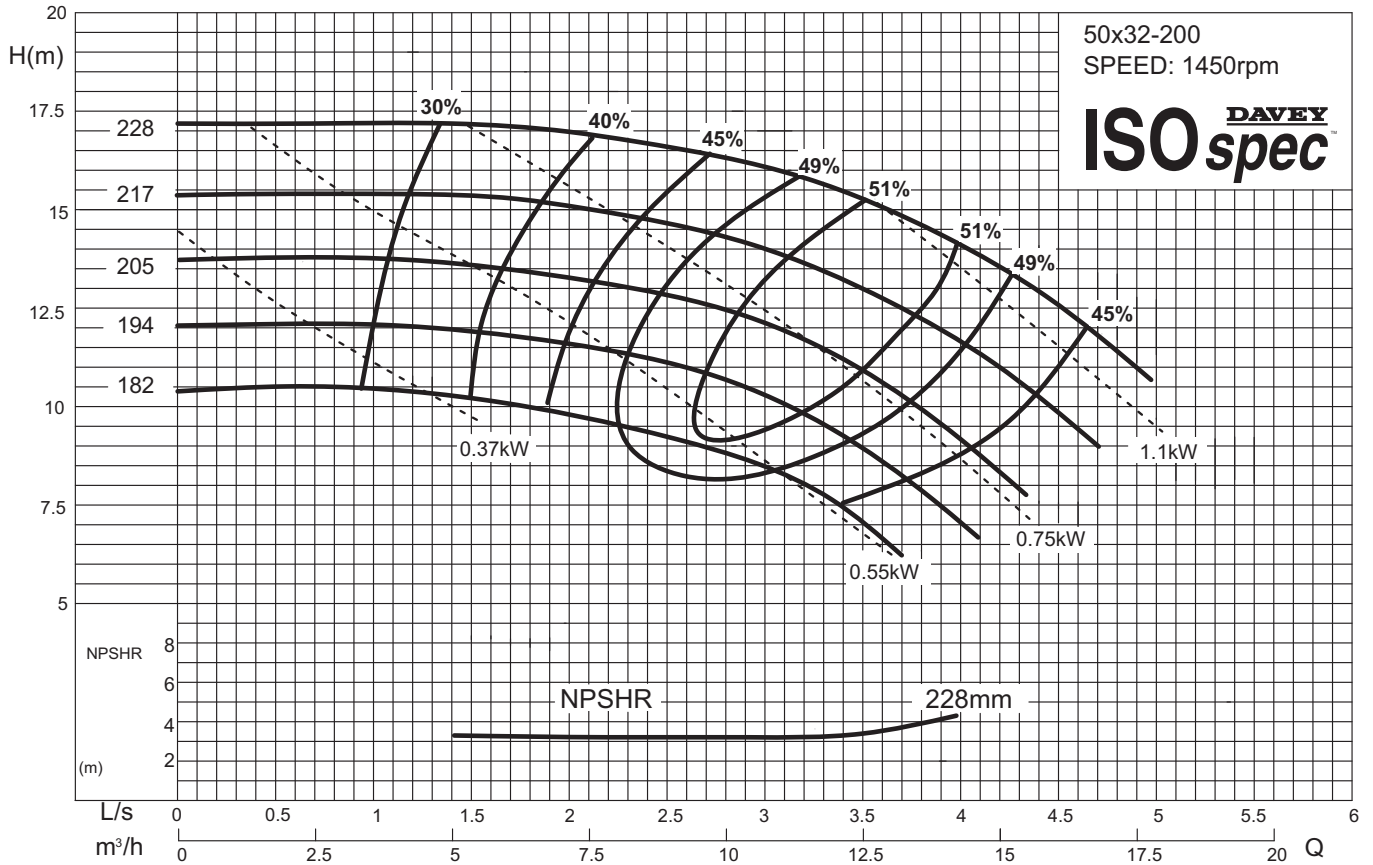




# TECHNICAL SPECIFICATIONS



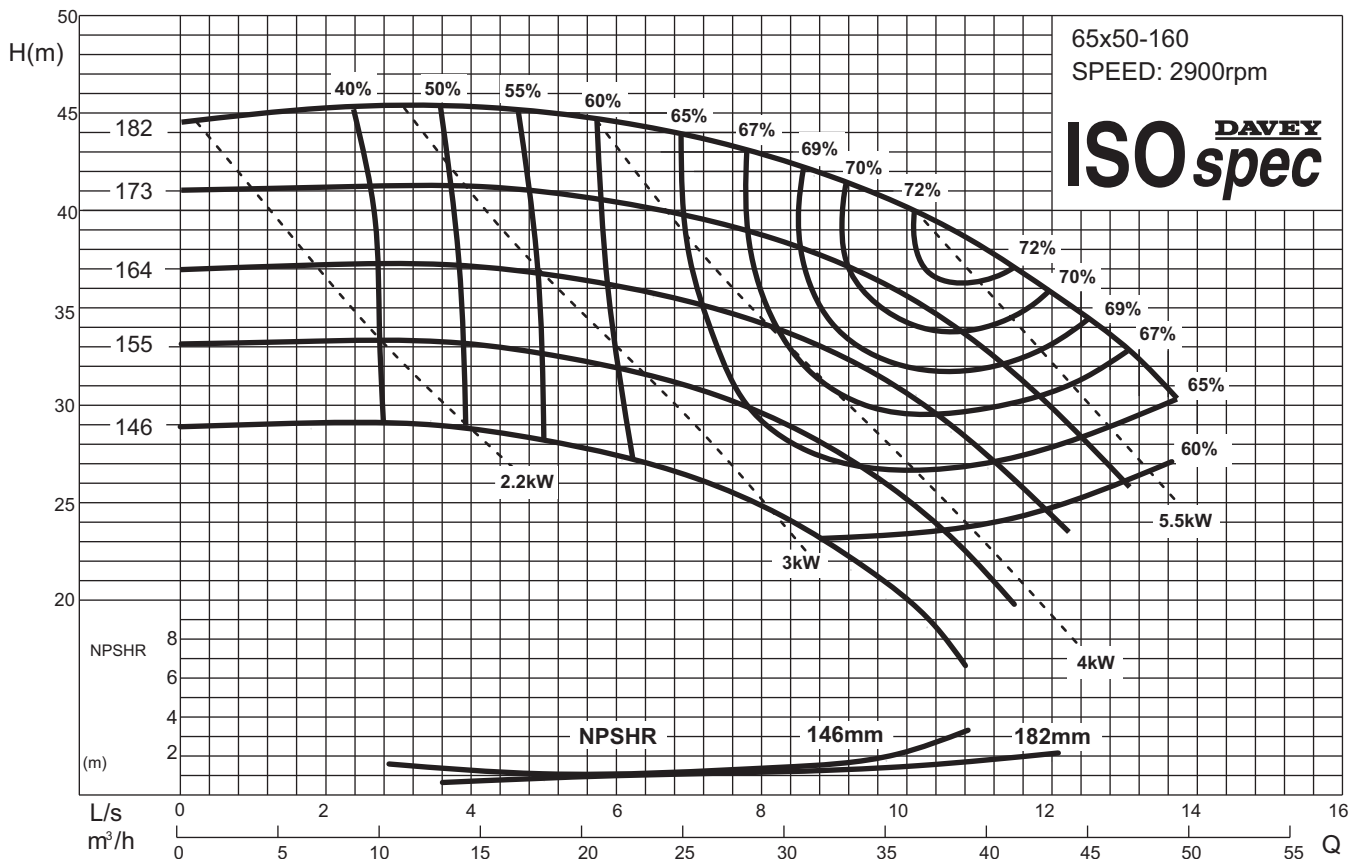
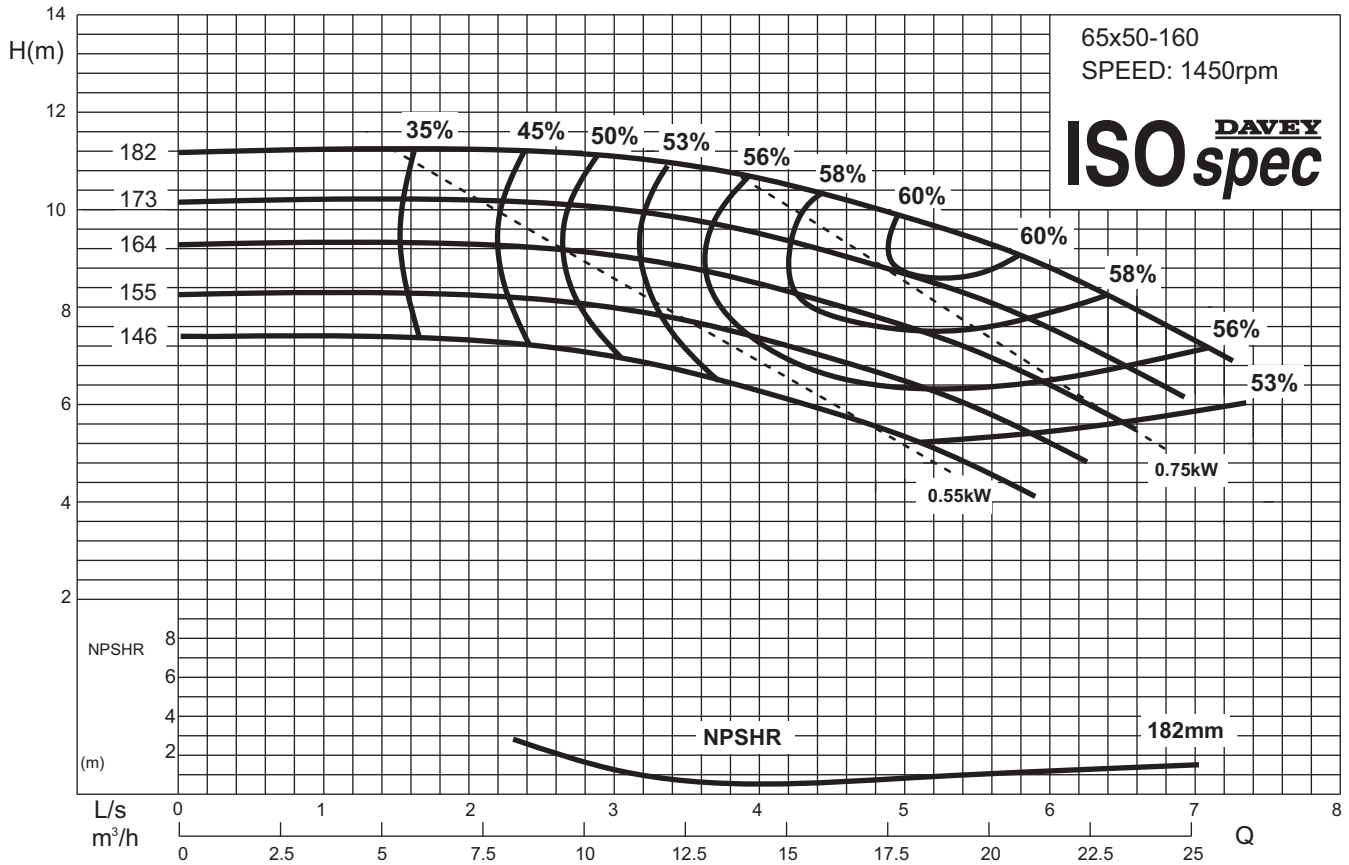
## CF & CM Series Performance Curve 50x32-200



# TECHNICAL SPECIFICATIONS



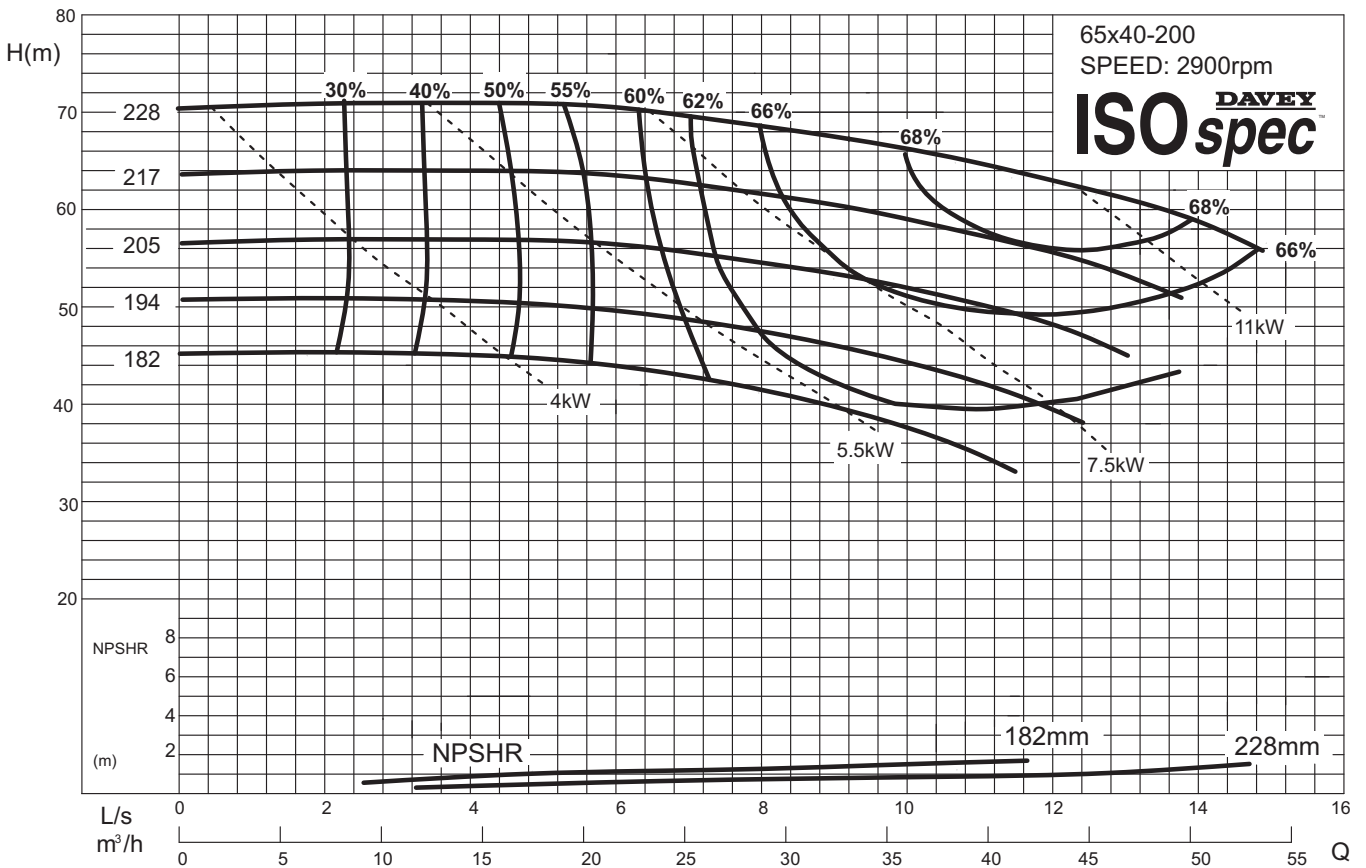
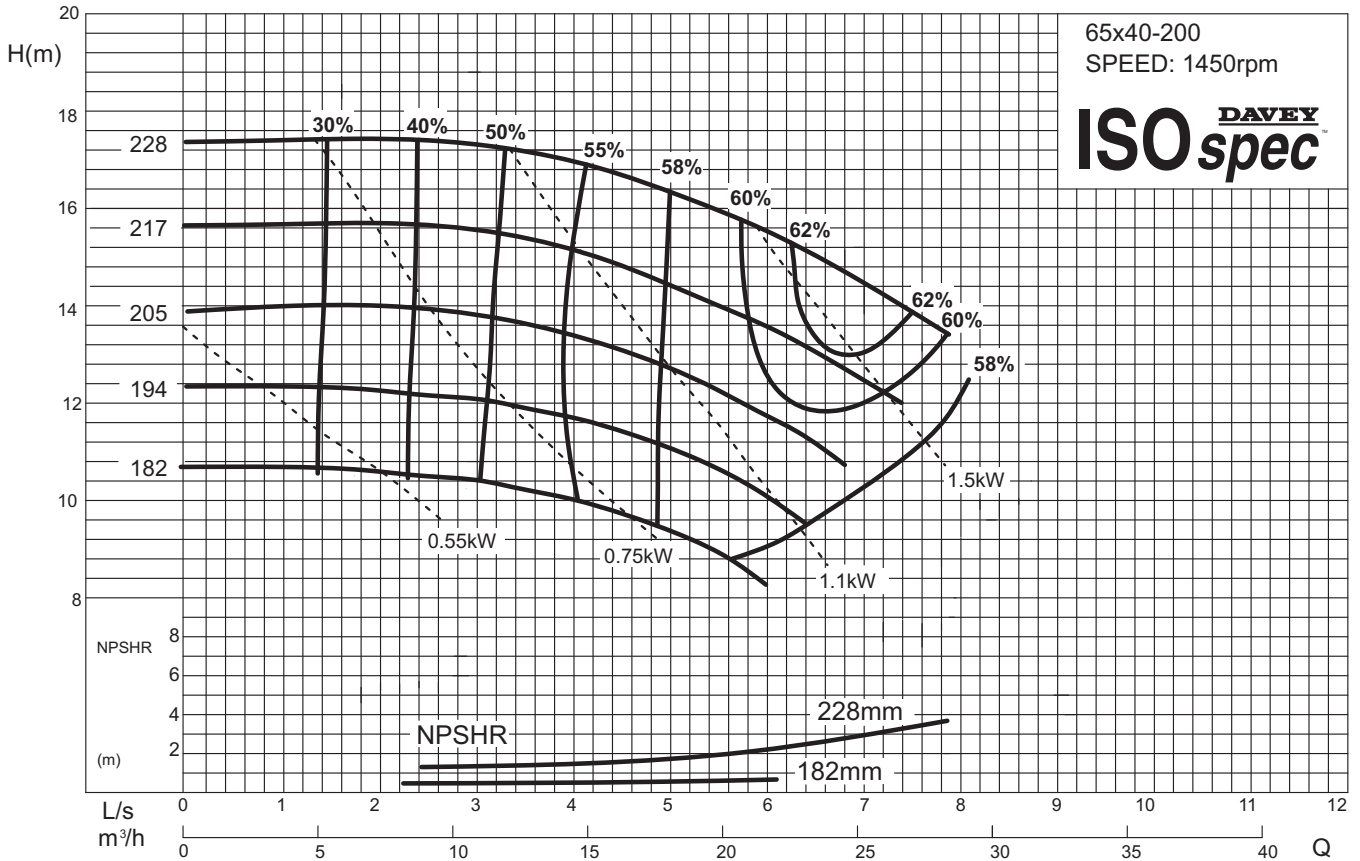
## CF & CM Series Performance Curve 65x50-160



# TECHNICAL SPECIFICATIONS



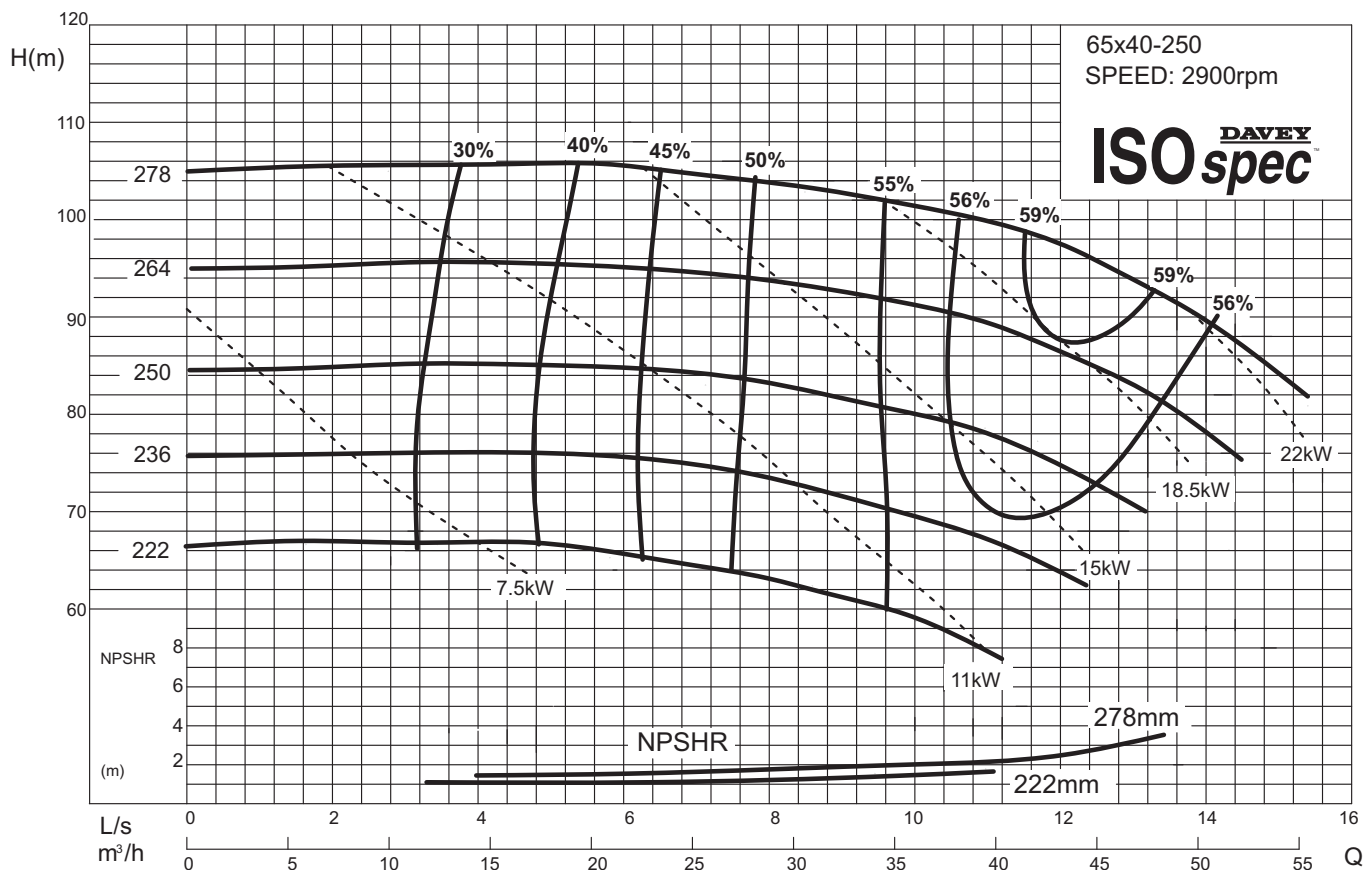
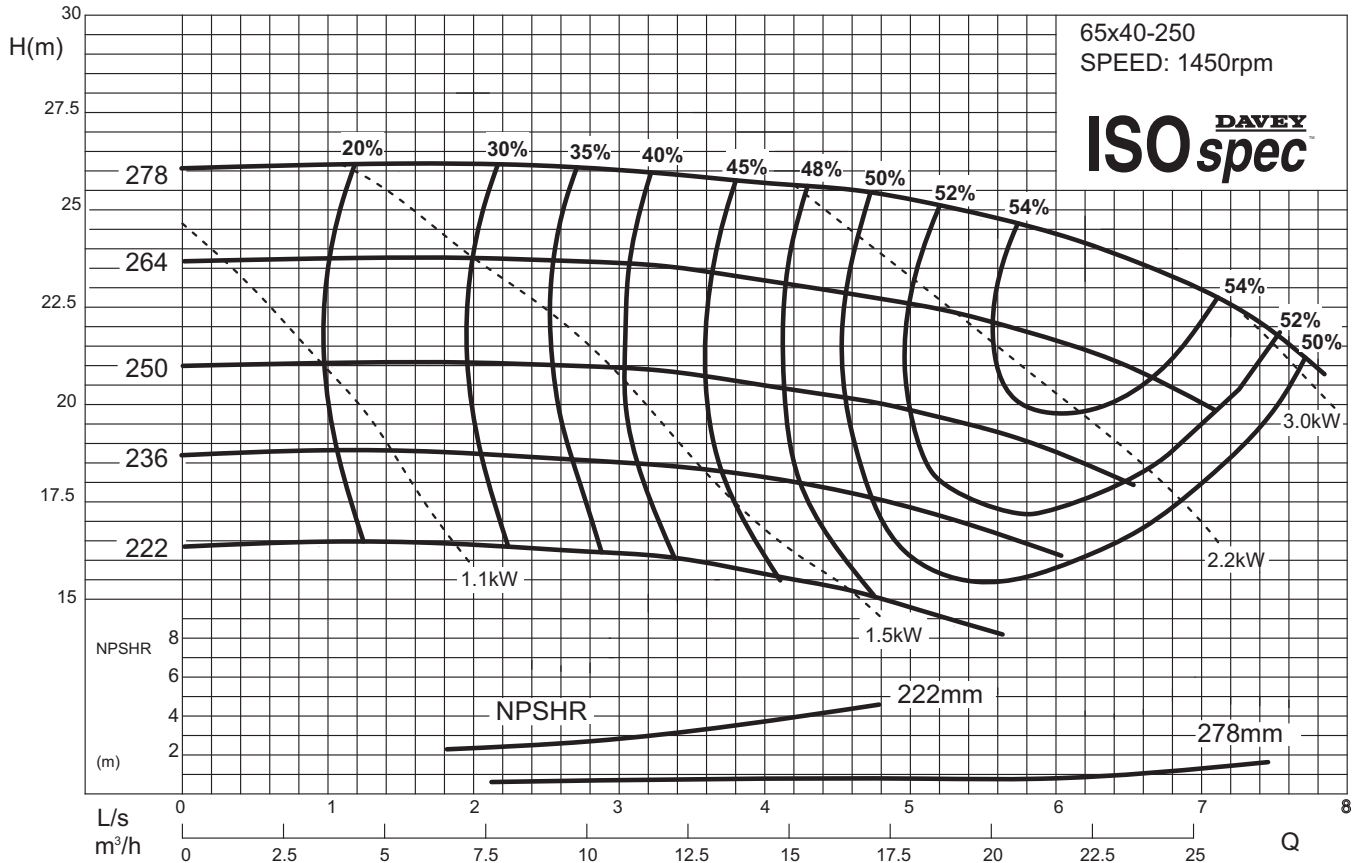
## CF & CM Series Performance Curve 65x40-200



# TECHNICAL SPECIFICATIONS



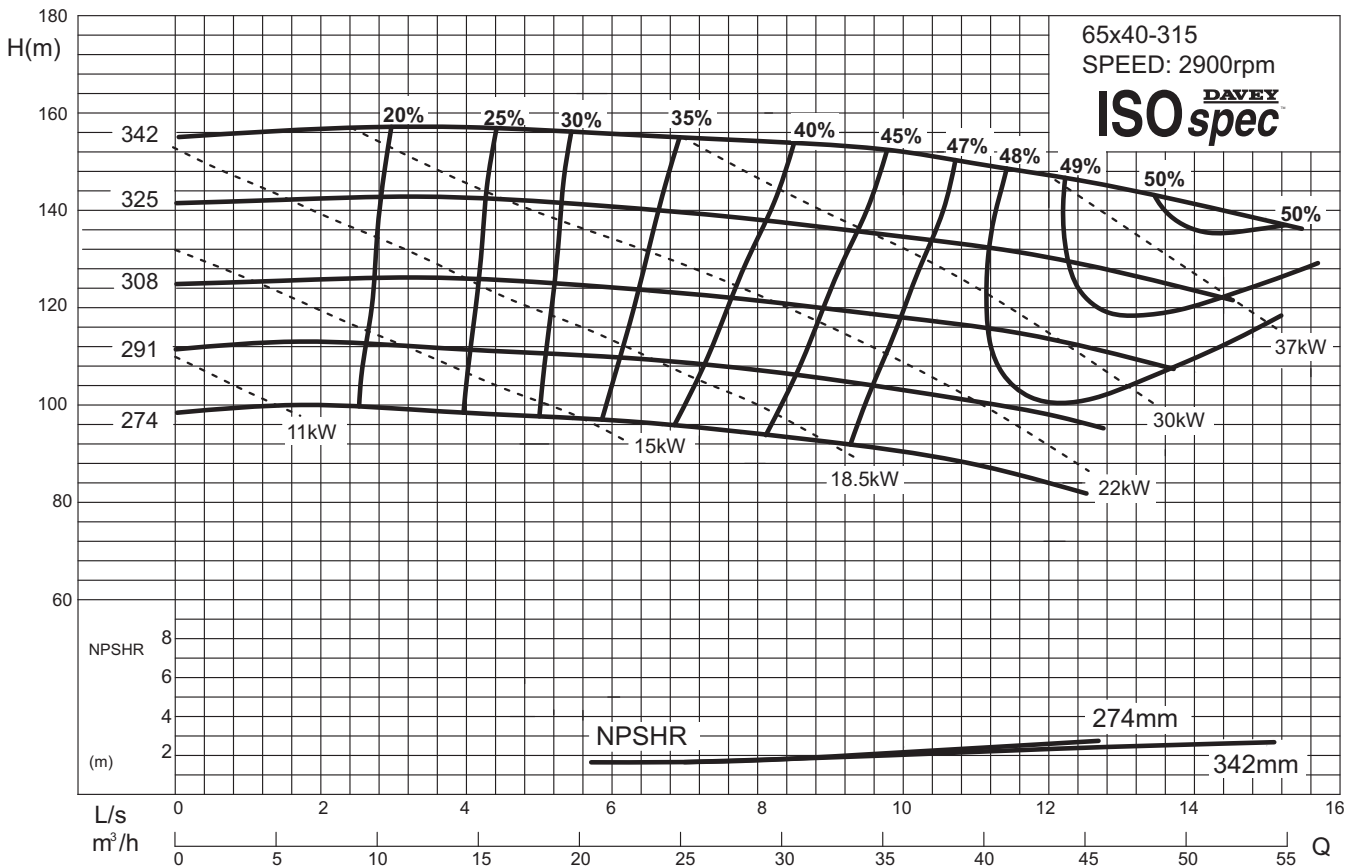
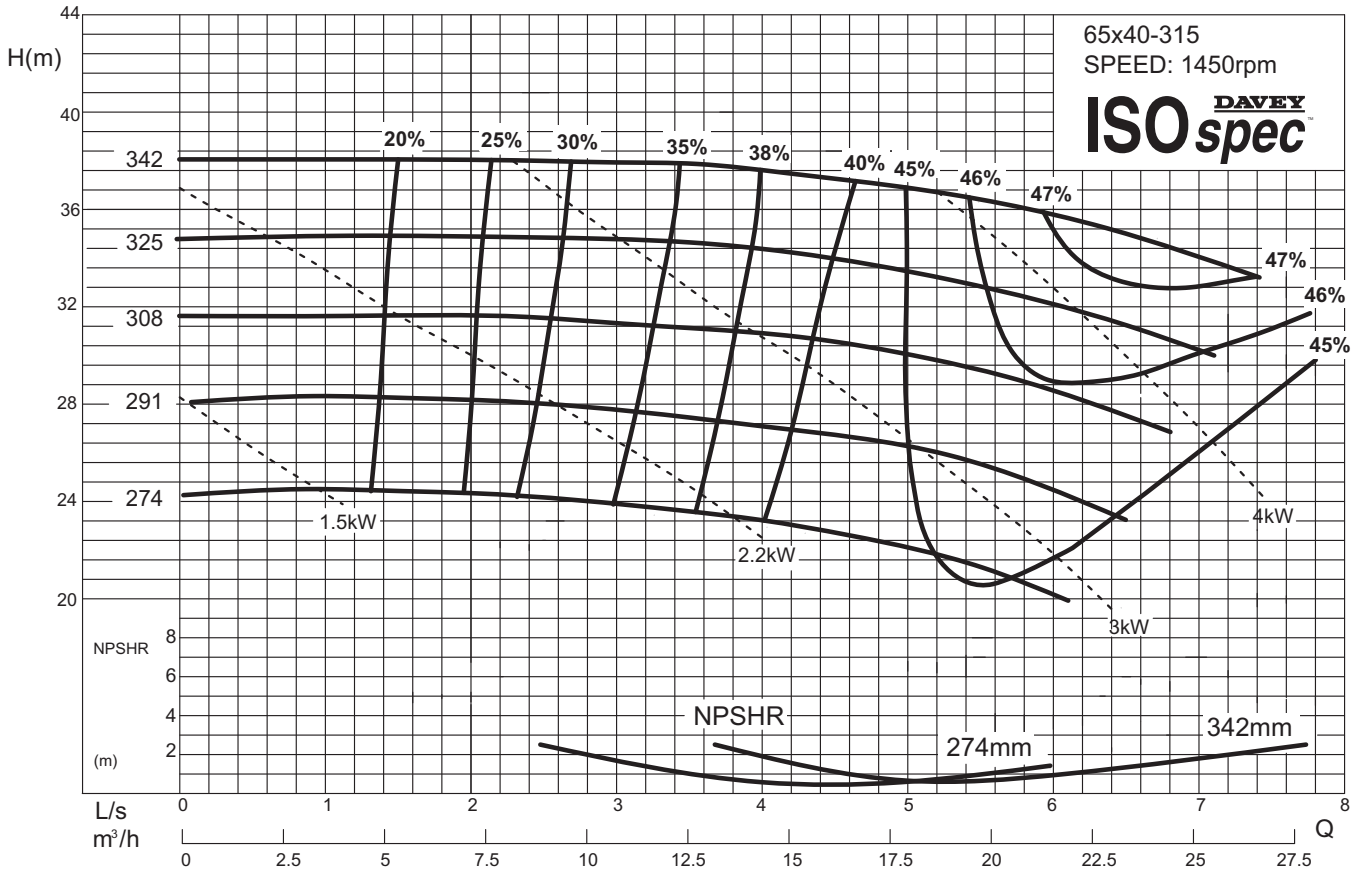
## CF & CM Series Performance Curve 65x40-250



# TECHNICAL SPECIFICATIONS

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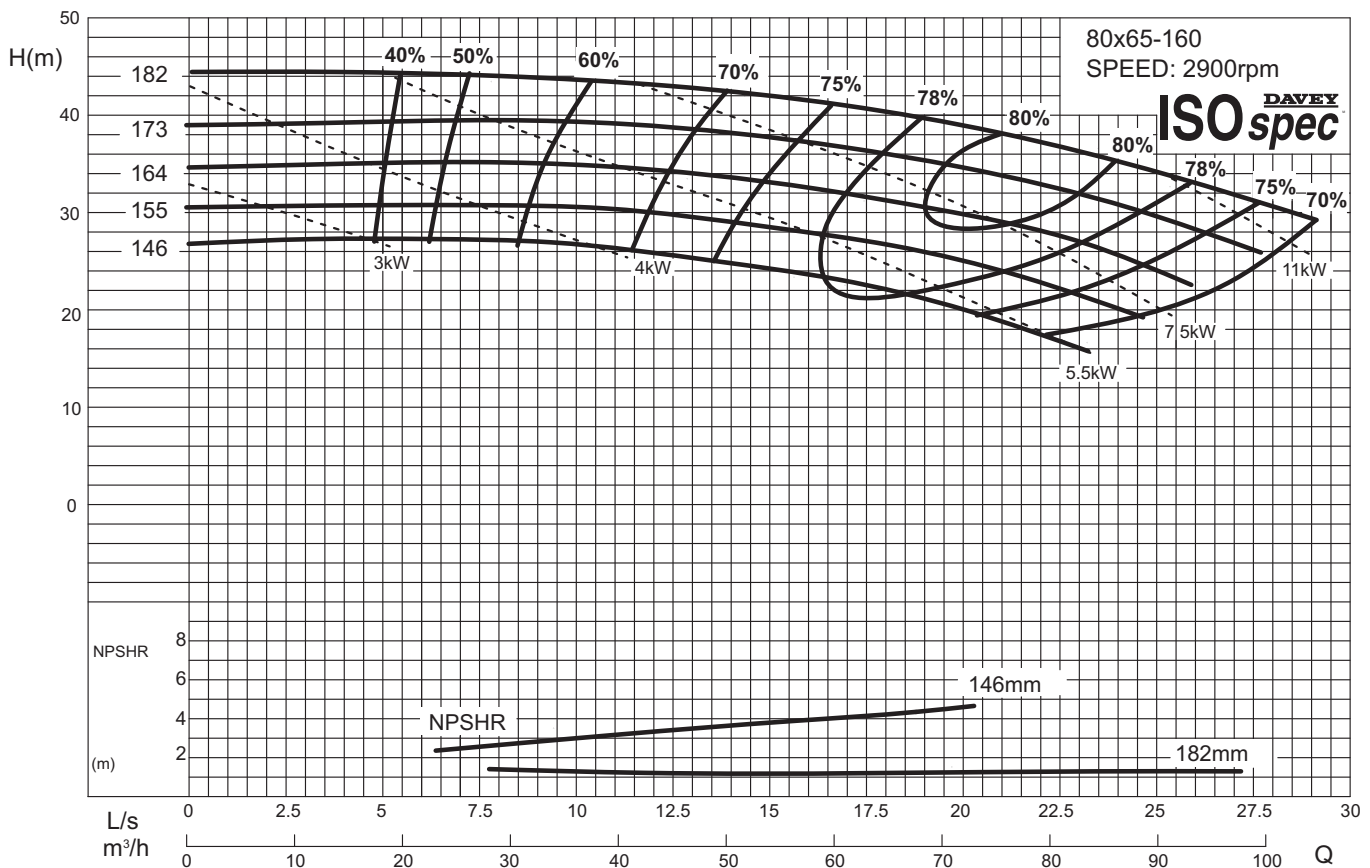
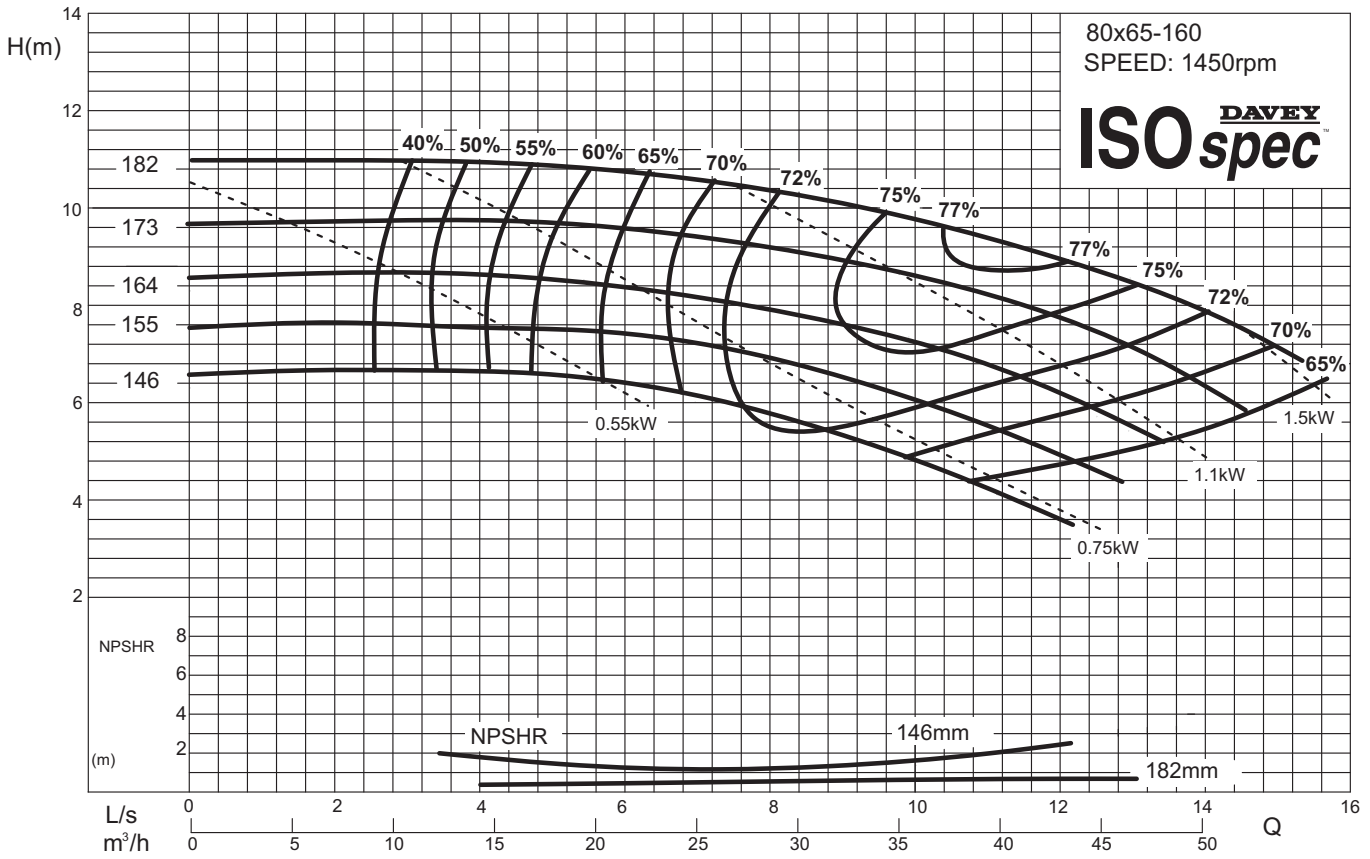
## CF & CM Series Performance Curve 65x40-315



# TECHNICAL SPECIFICATIONS



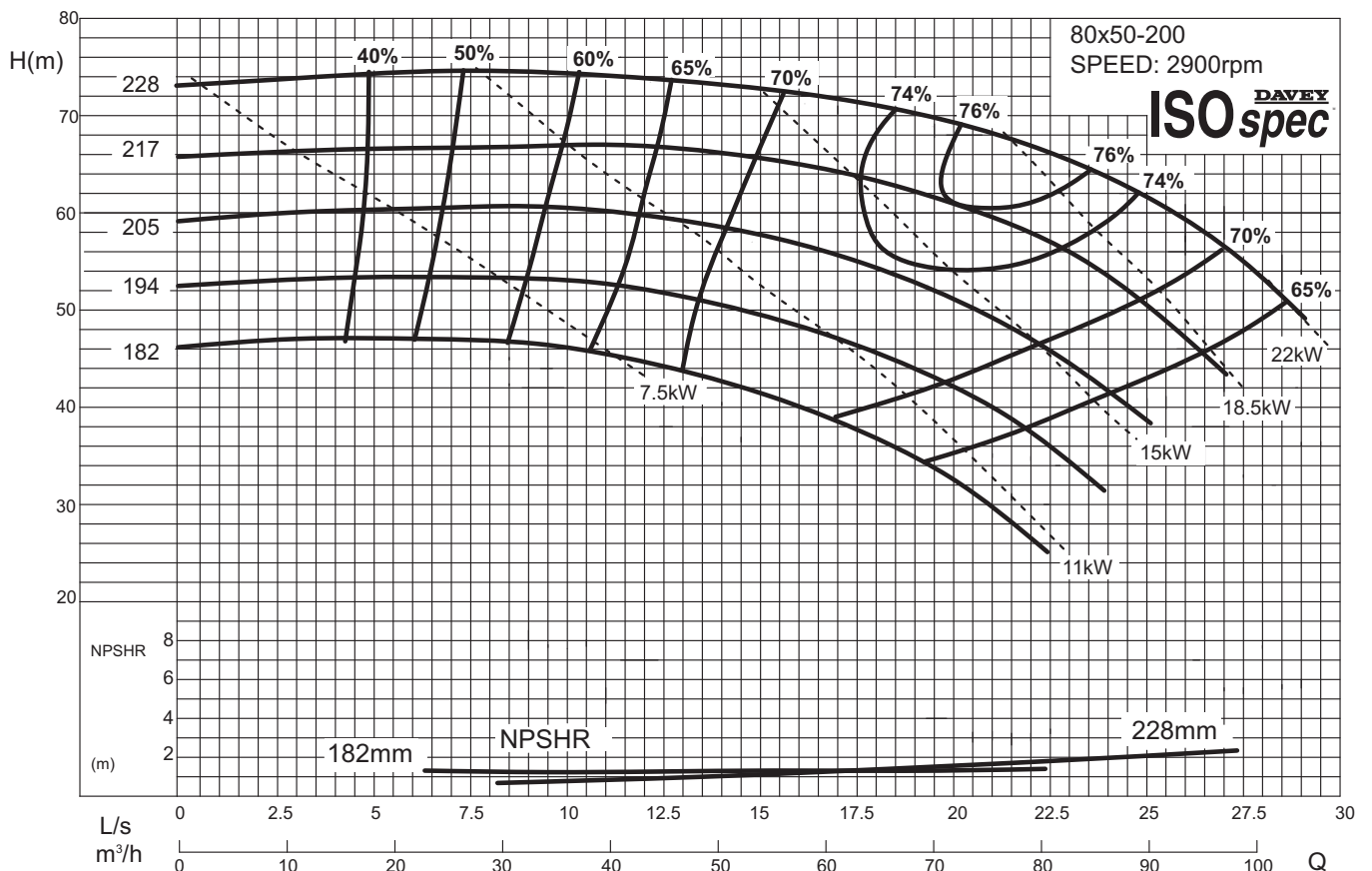
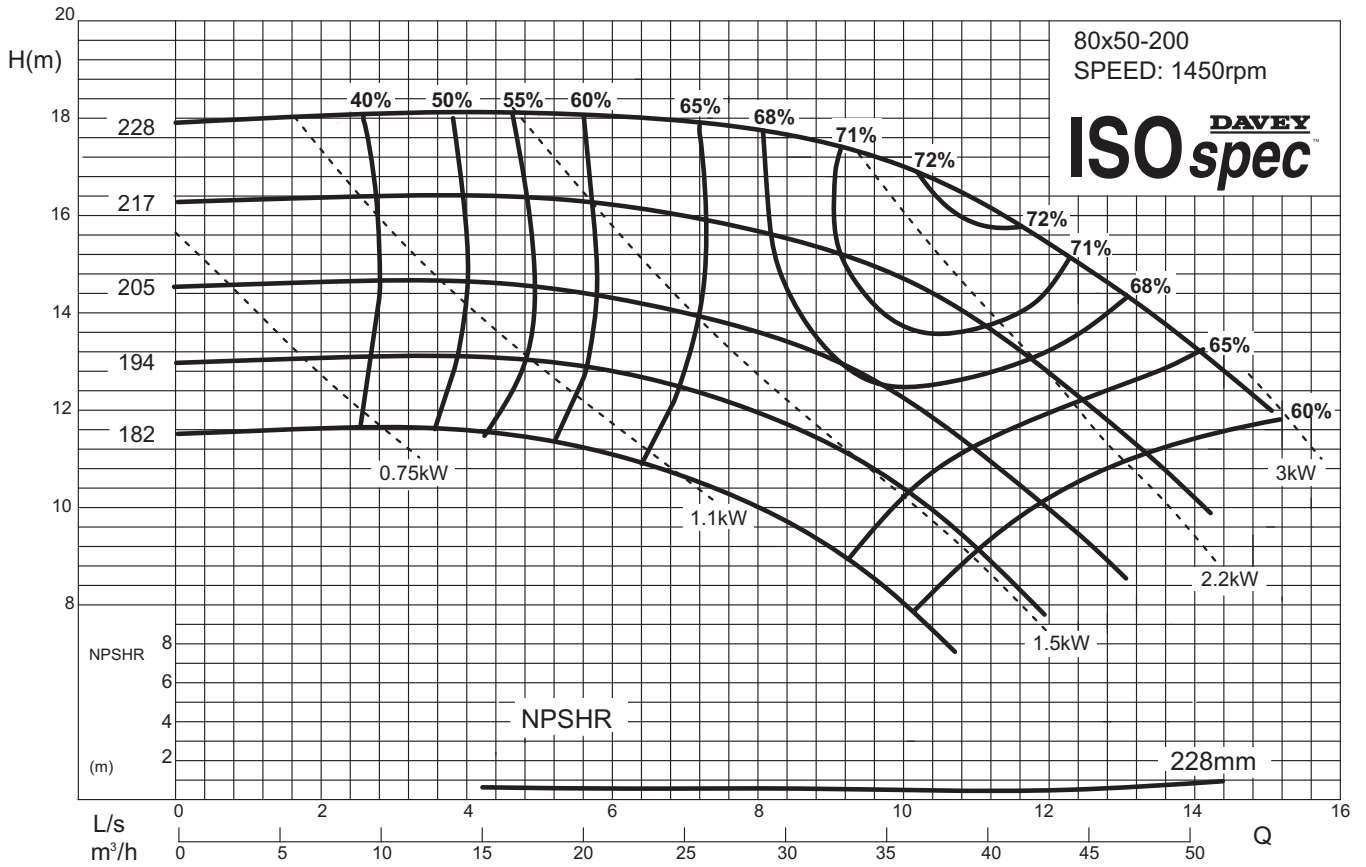
## CF & CM Series Performance Curve 80x65-160



# TECHNICAL SPECIFICATIONS



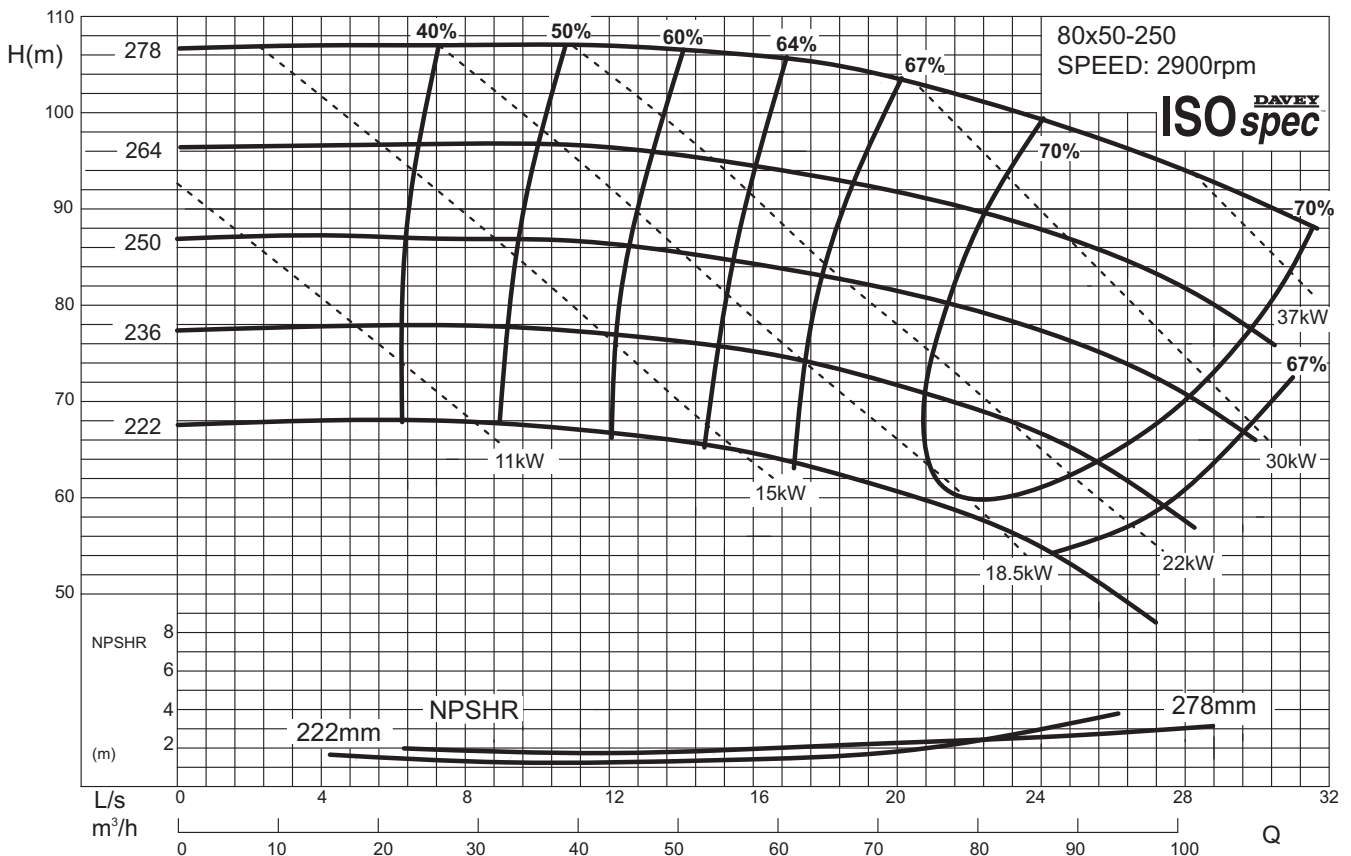
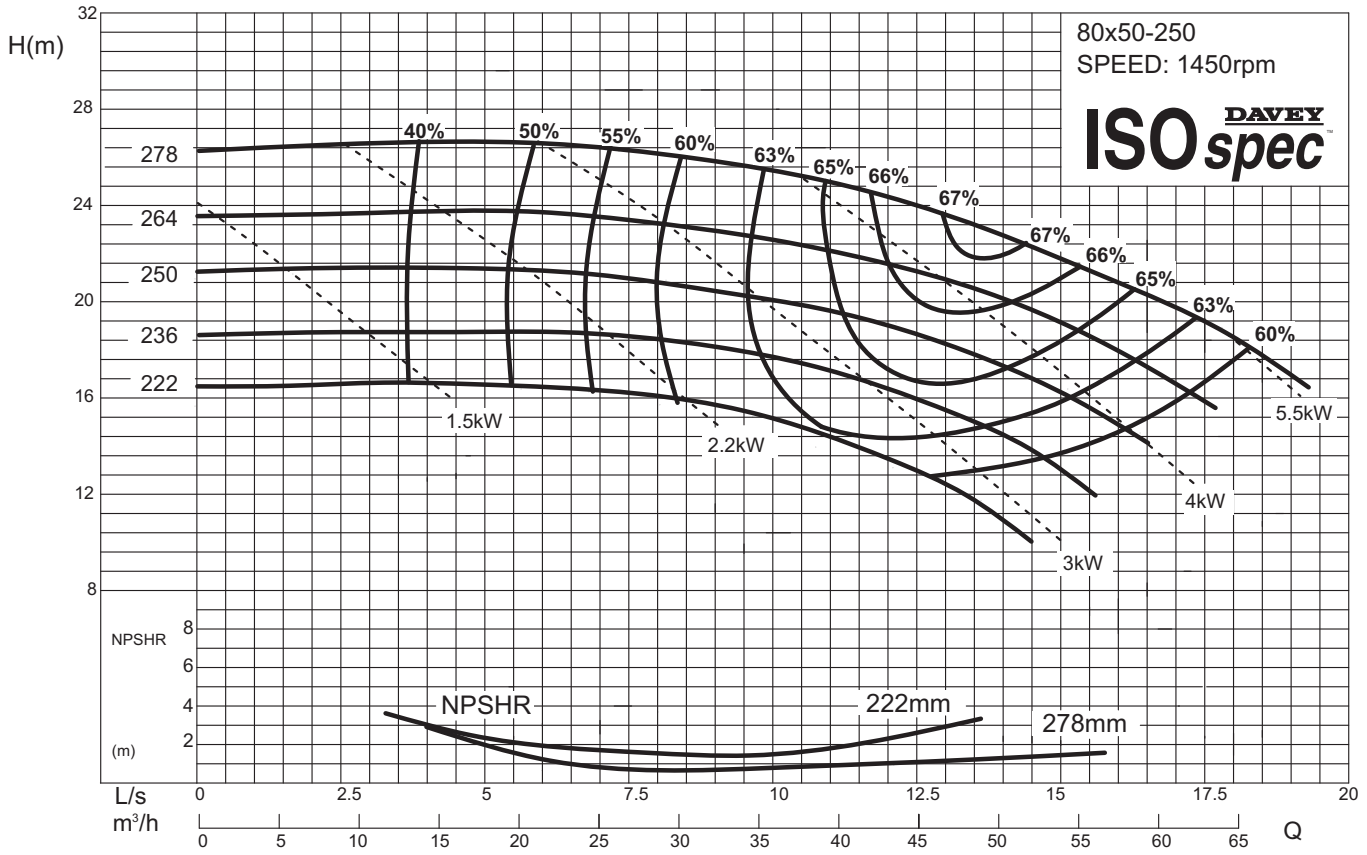
## CF & CM Series Performance Curve 80x50-200



# TECHNICAL SPECIFICATIONS



## CF & CM Series Performance Curve 80x50-250

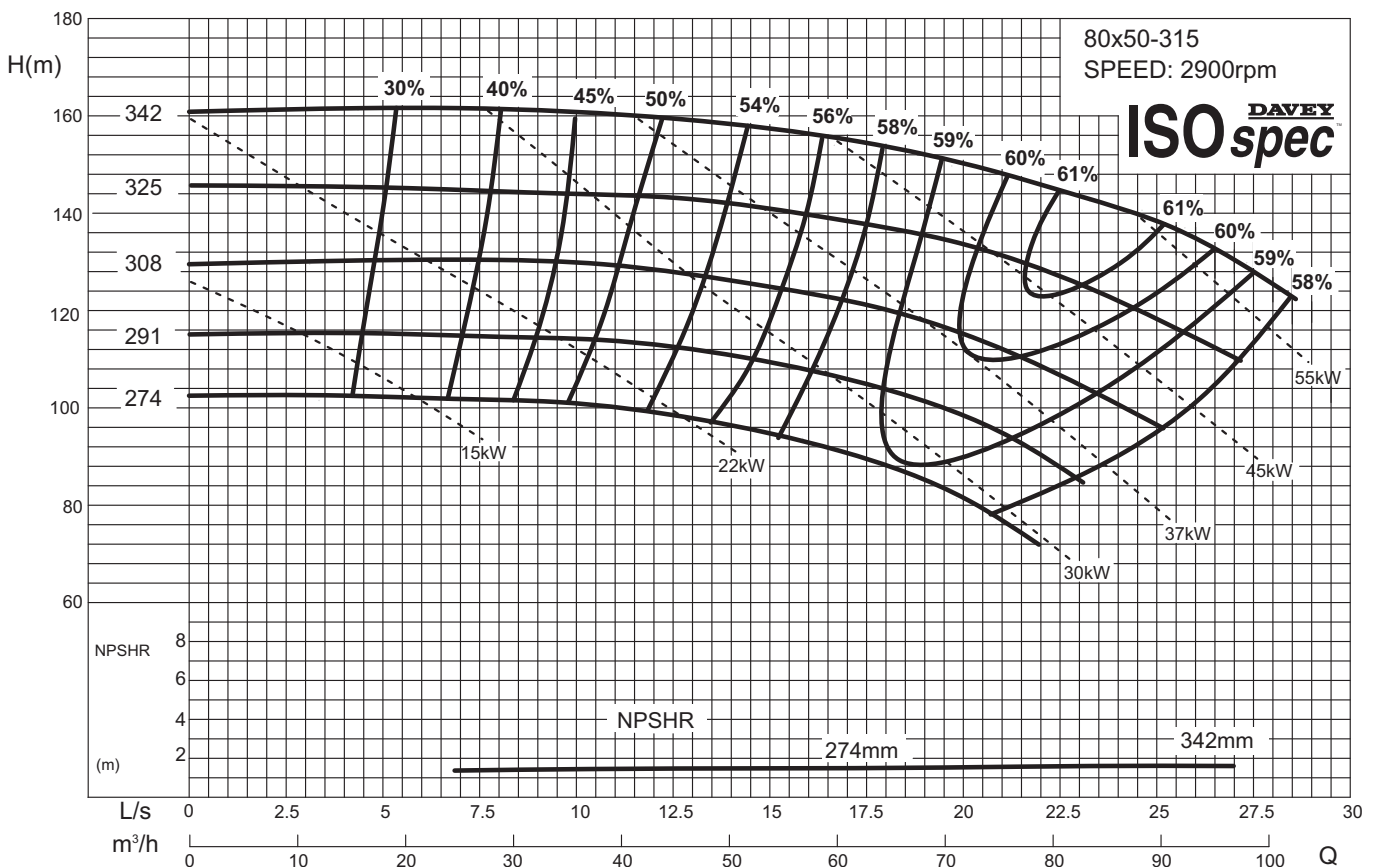
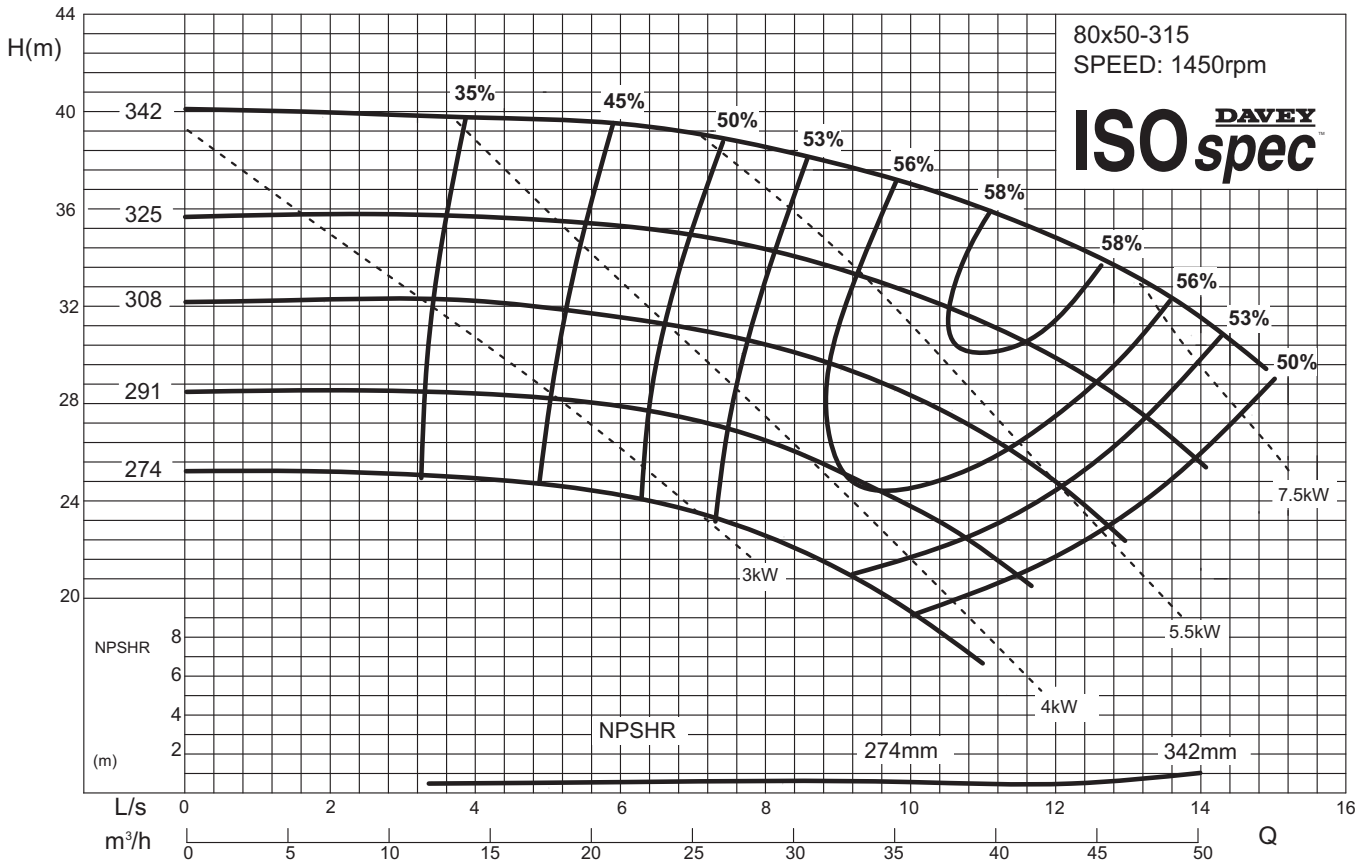




# TECHNICAL SPECIFICATIONS



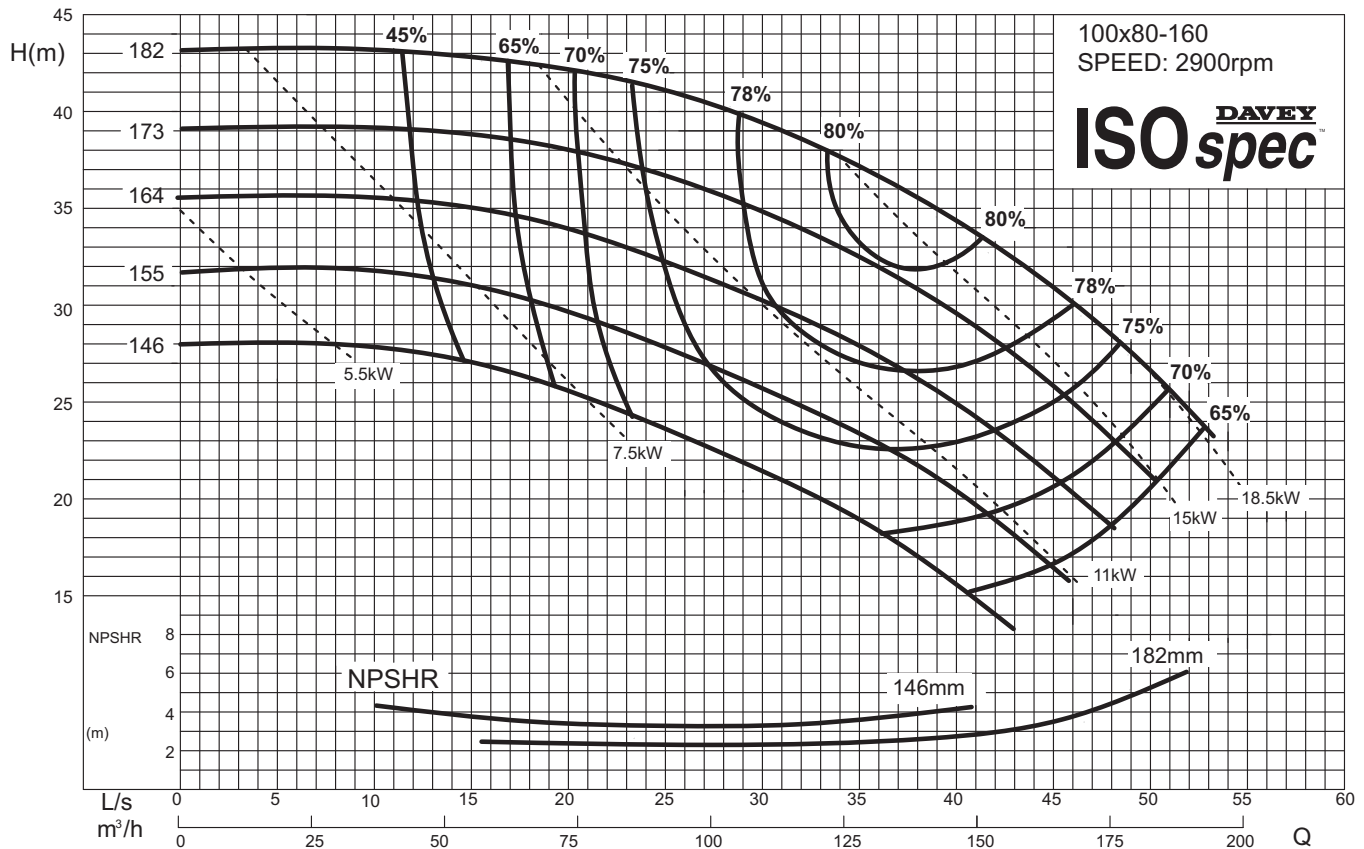
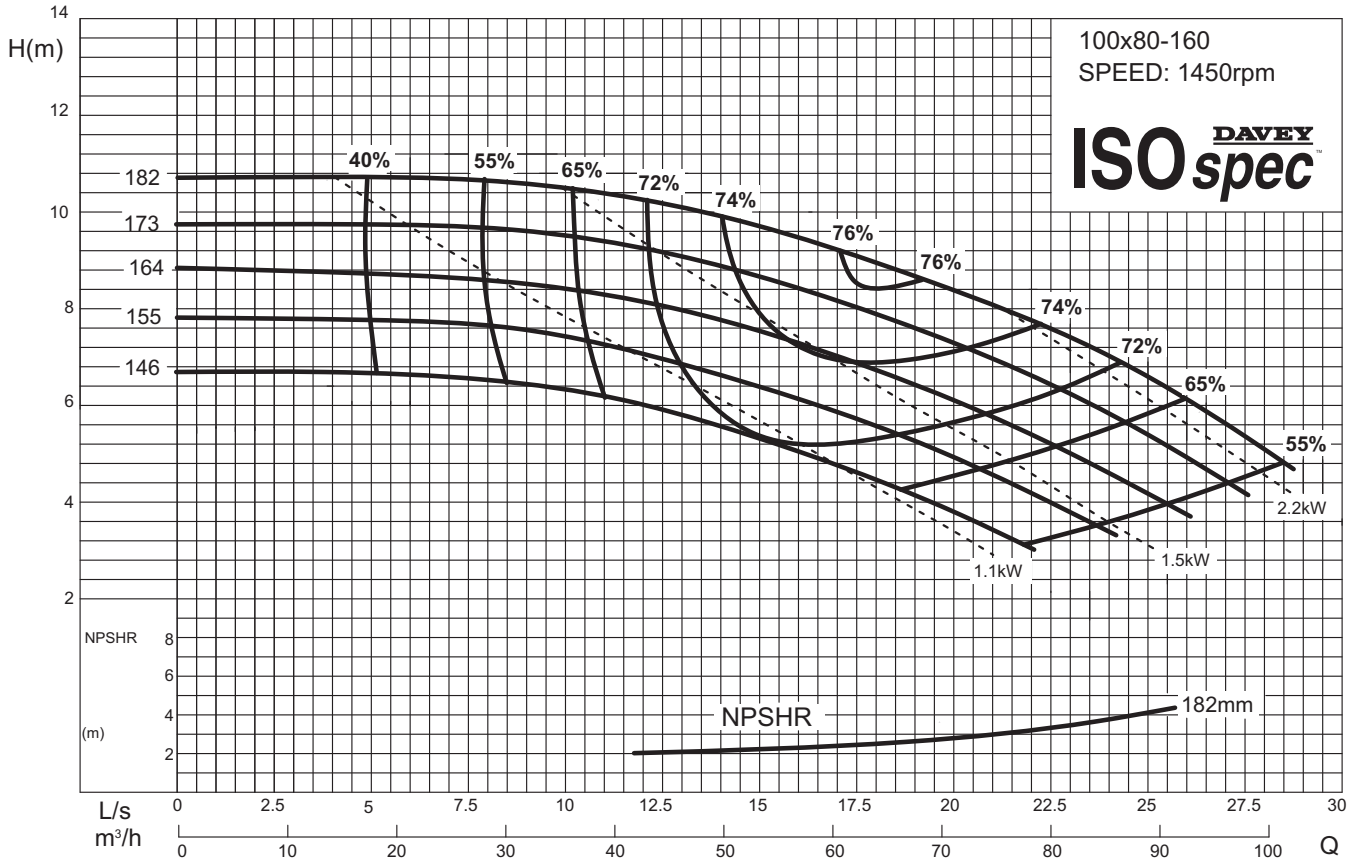
## CF & CM Series Performance Curve 80x50-315



# TECHNICAL SPECIFICATIONS



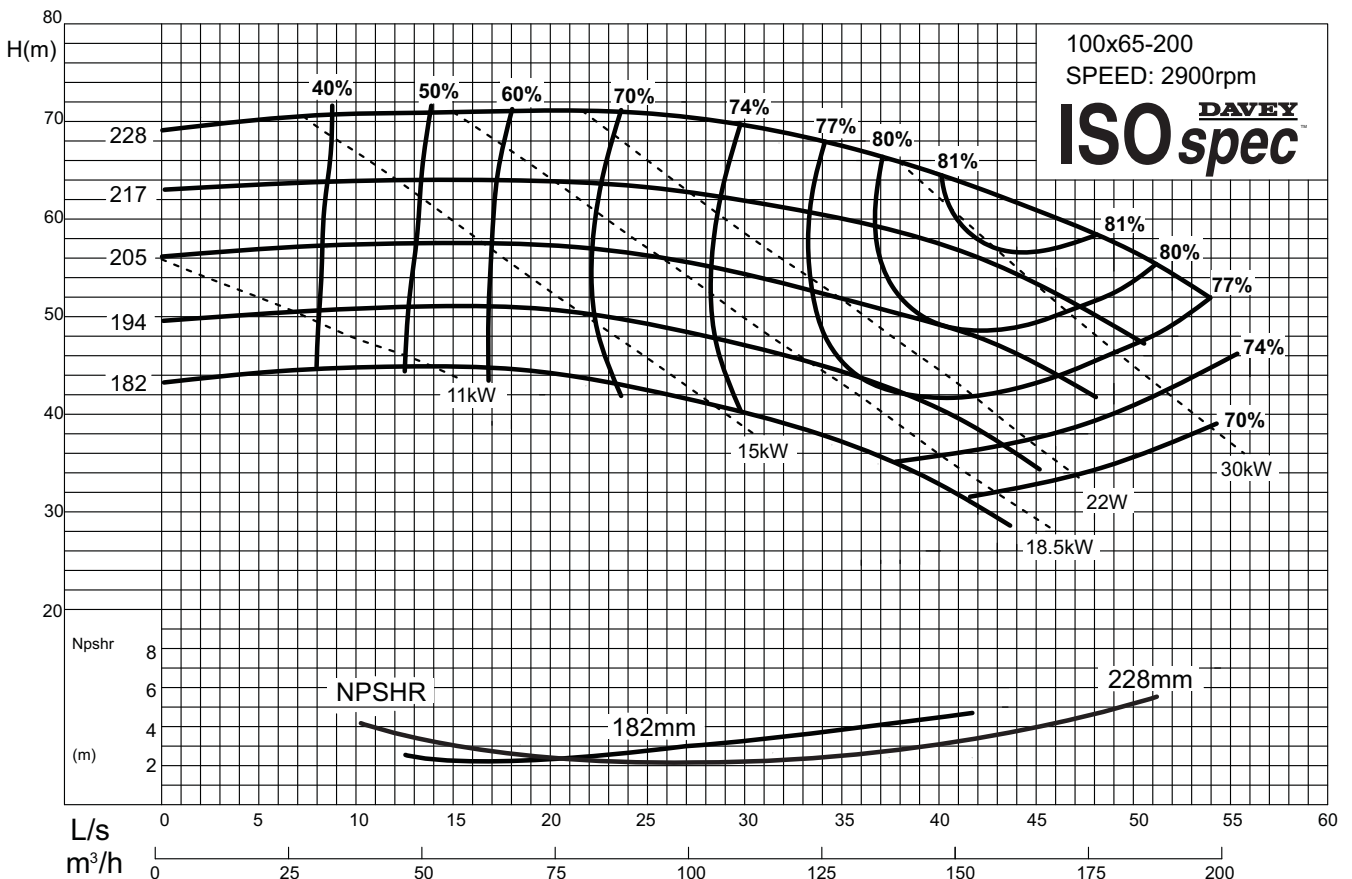
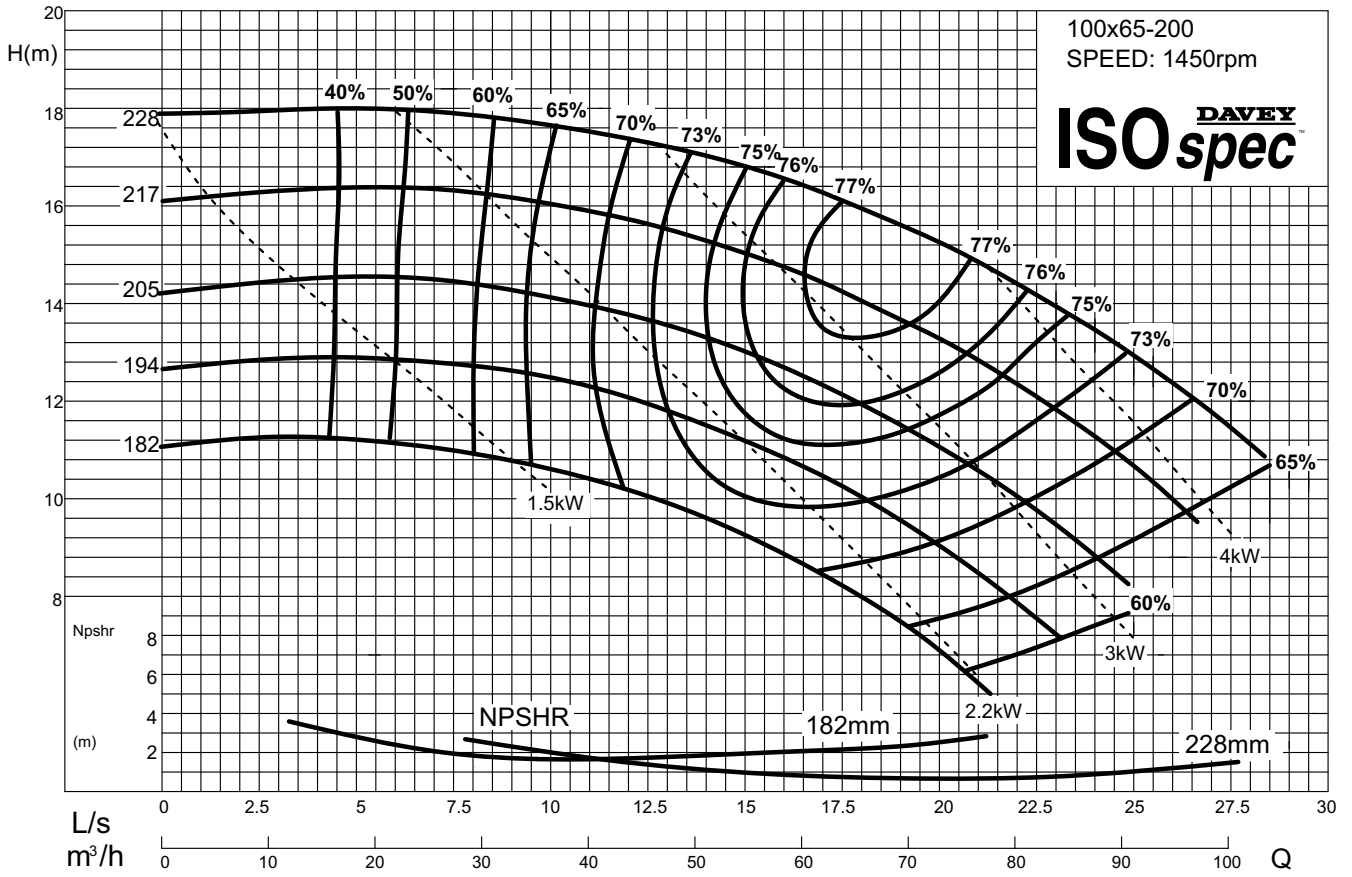
## CF & CM Series Performance Curve 100x80-160



# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

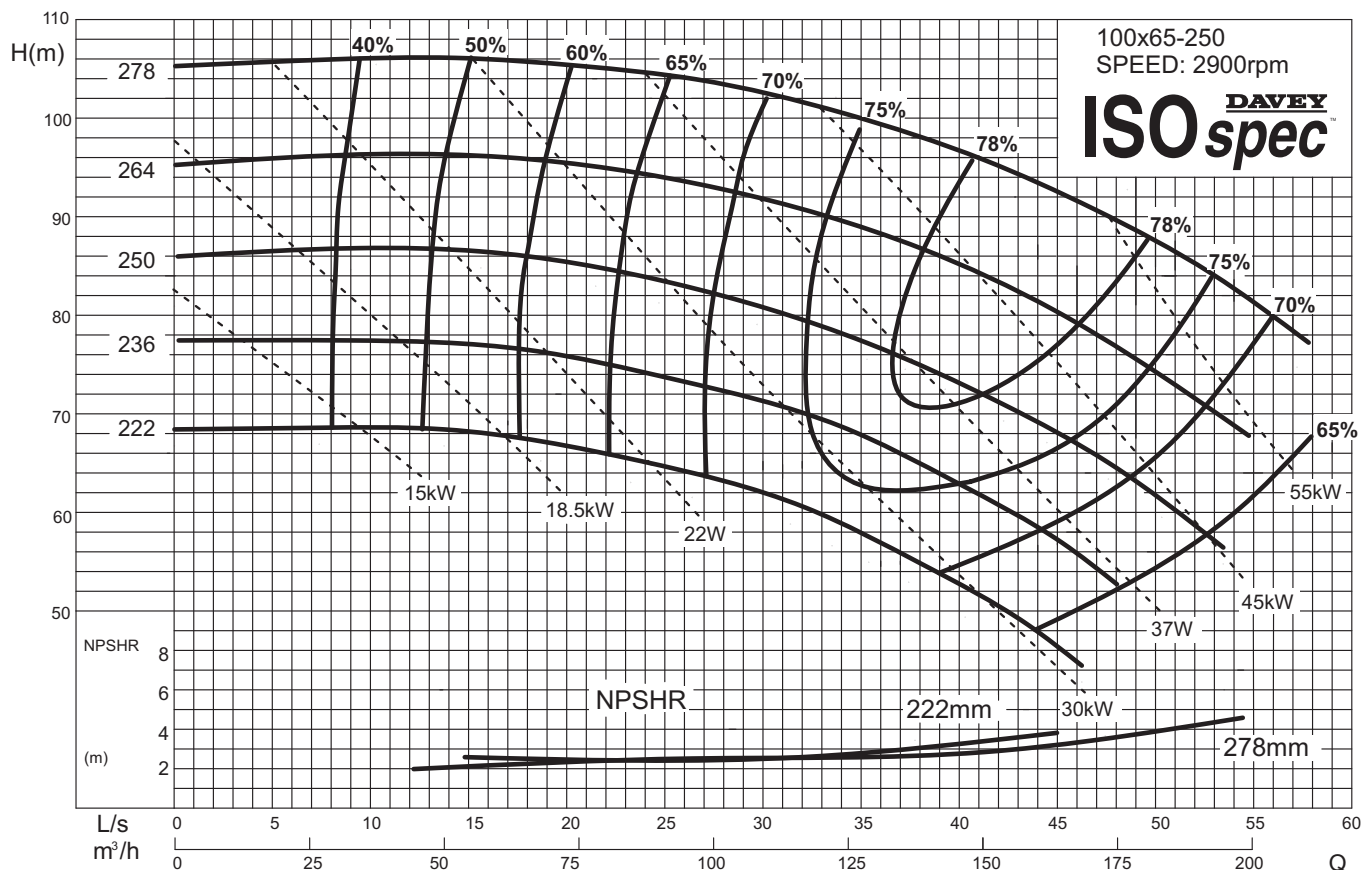
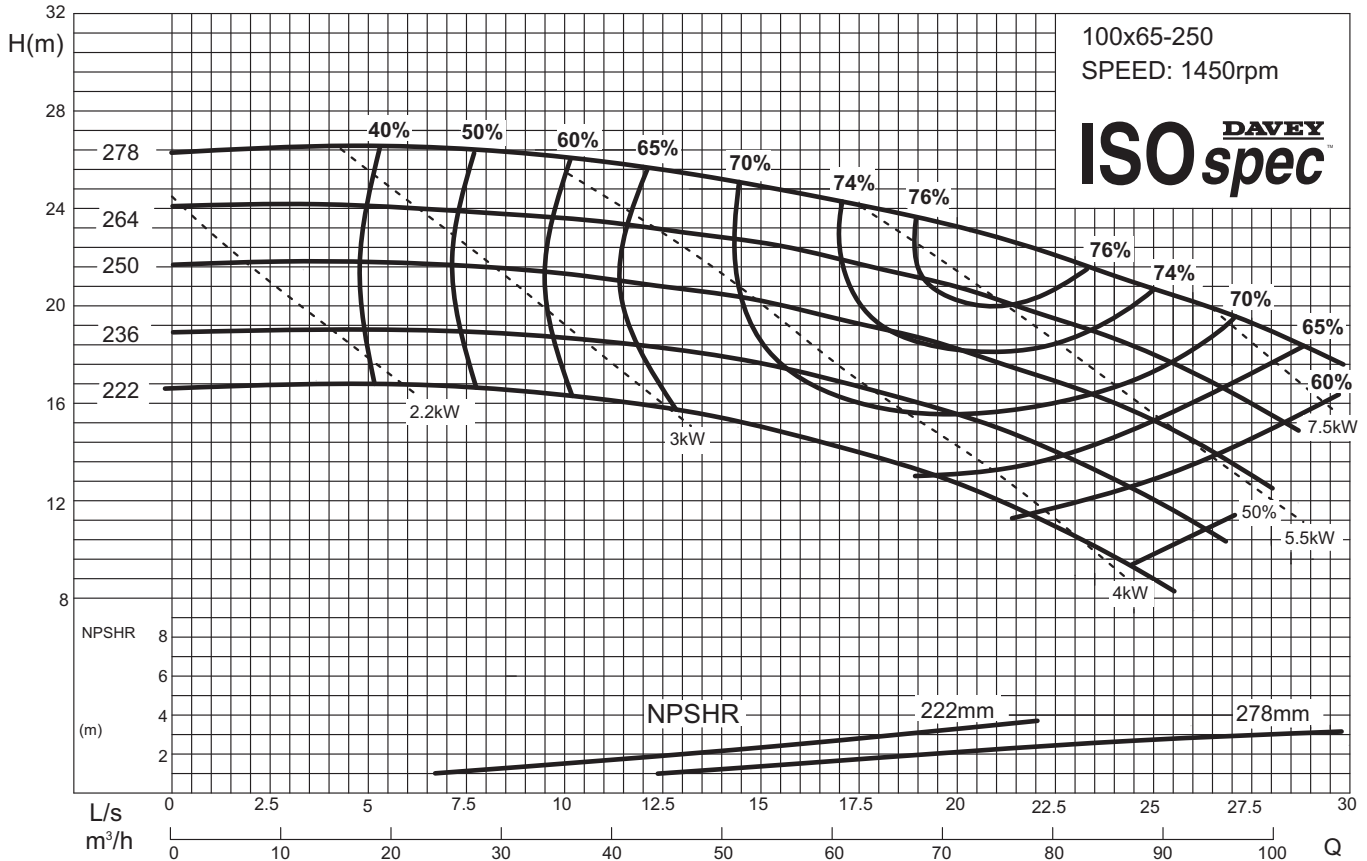
## CF & CM Series Performance Curve 100x65-200



# TECHNICAL SPECIFICATIONS



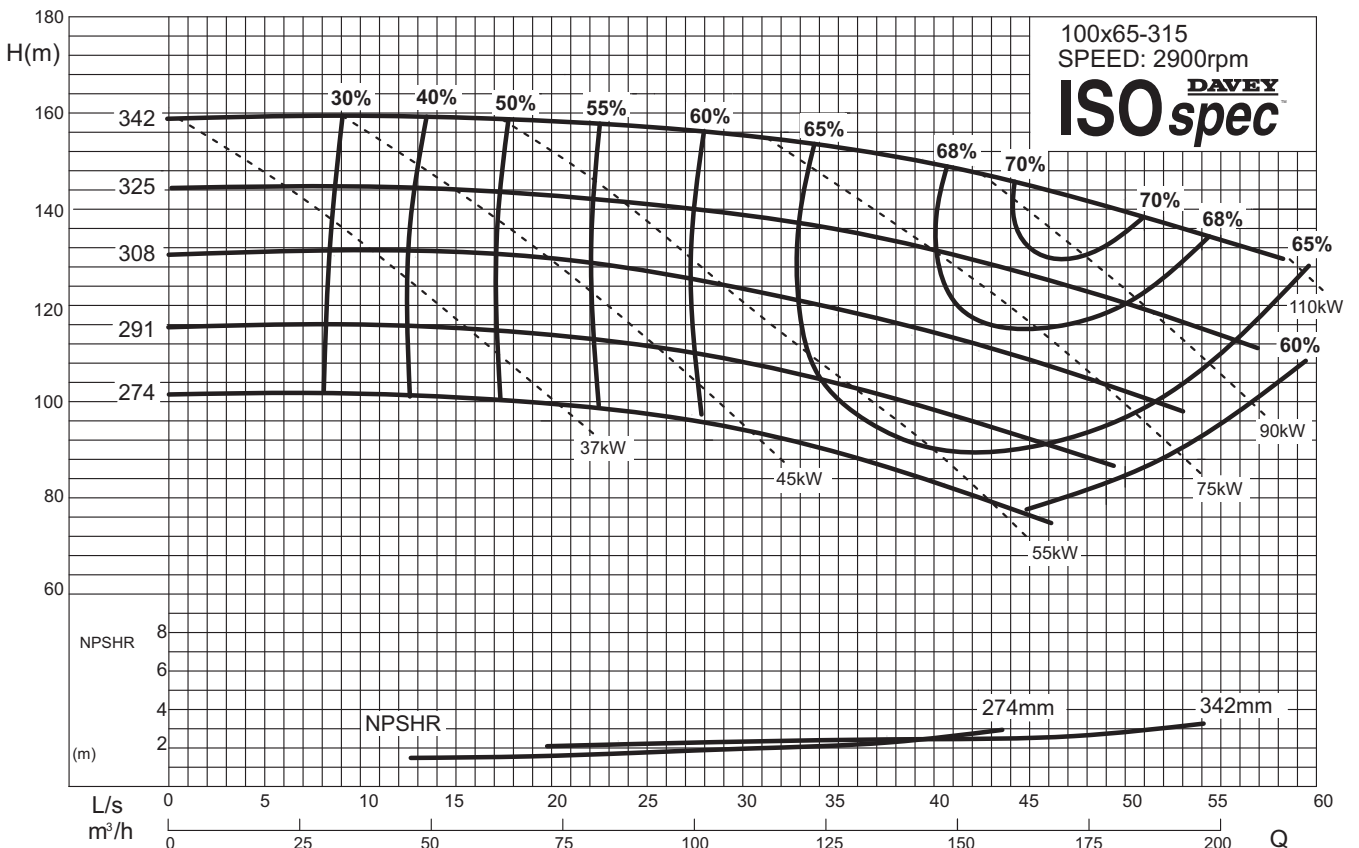
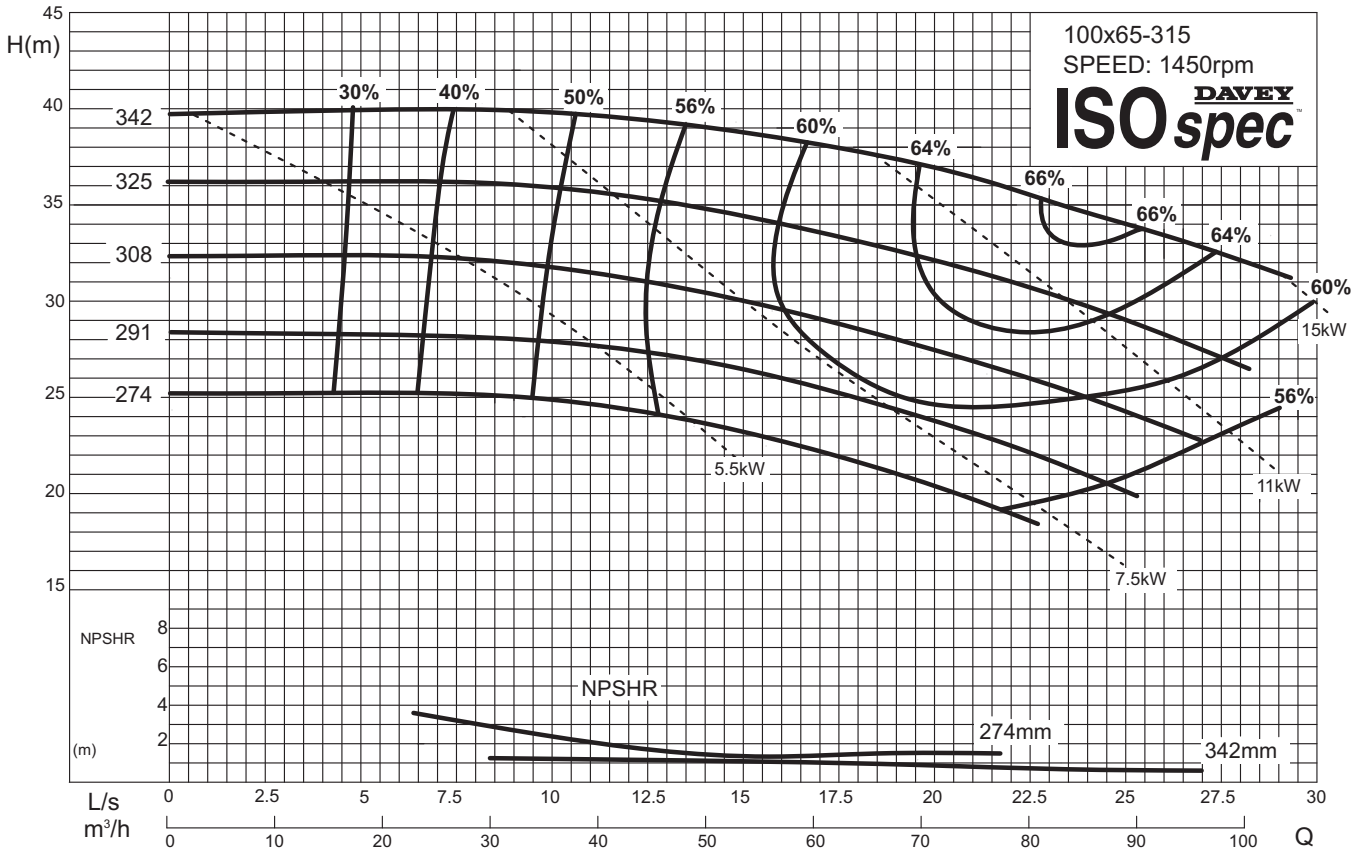
## CF & CM Series Performance Curve 100x65-250



# TECHNICAL SPECIFICATIONS



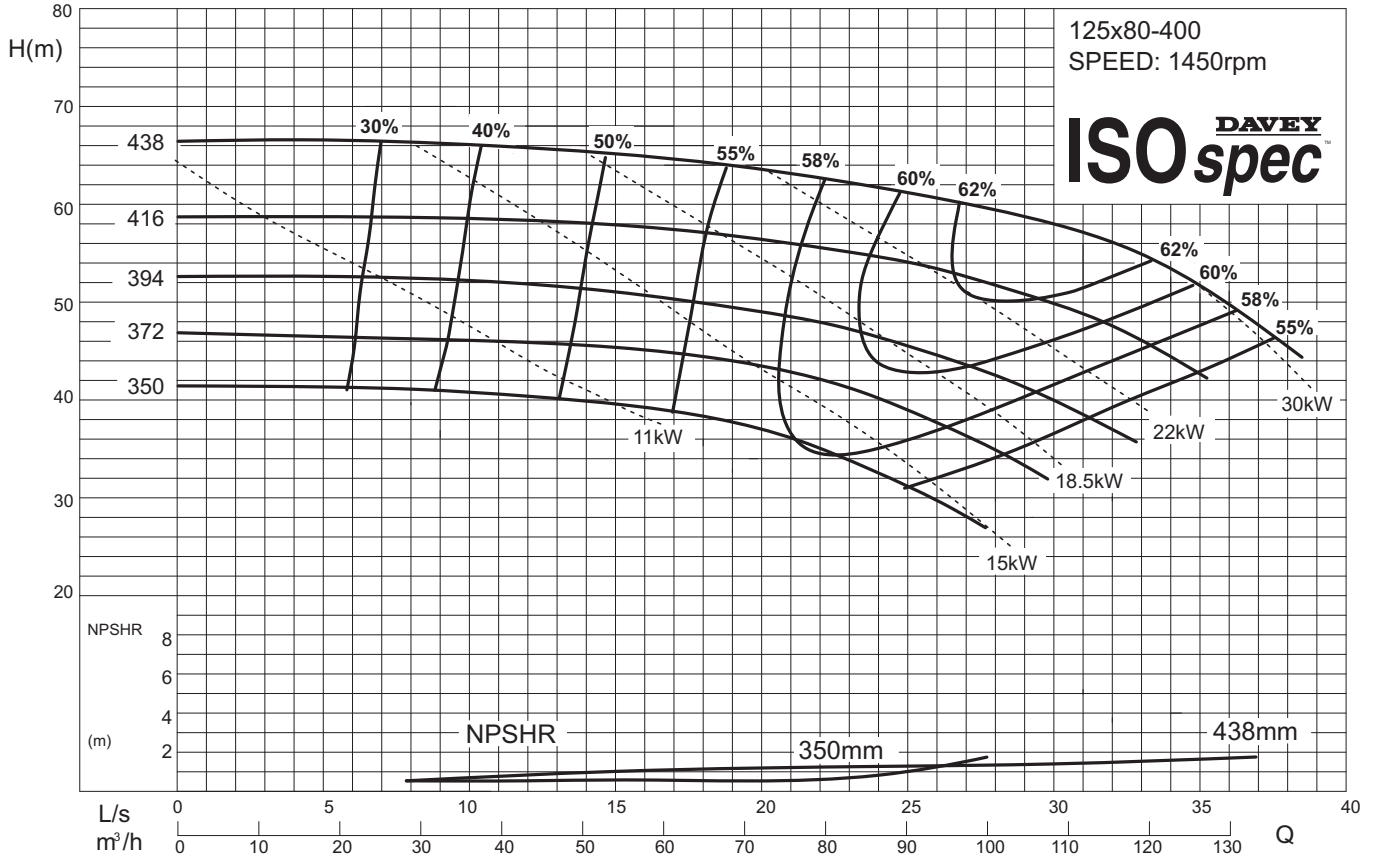
## CF & CM Series Performance Curve 100x65-315



# TECHNICAL SPECIFICATIONS

**ISOspec** DAVEY®

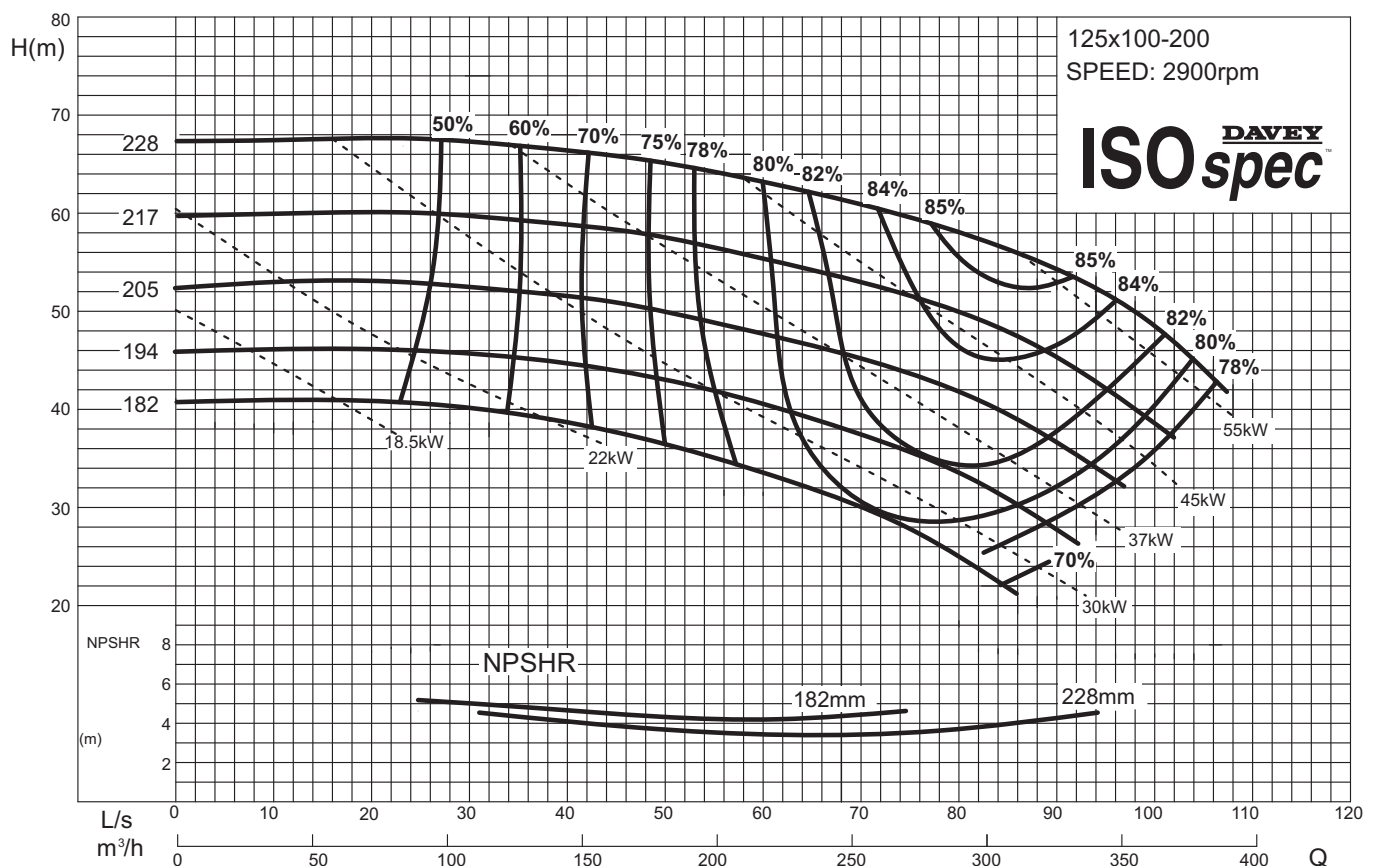
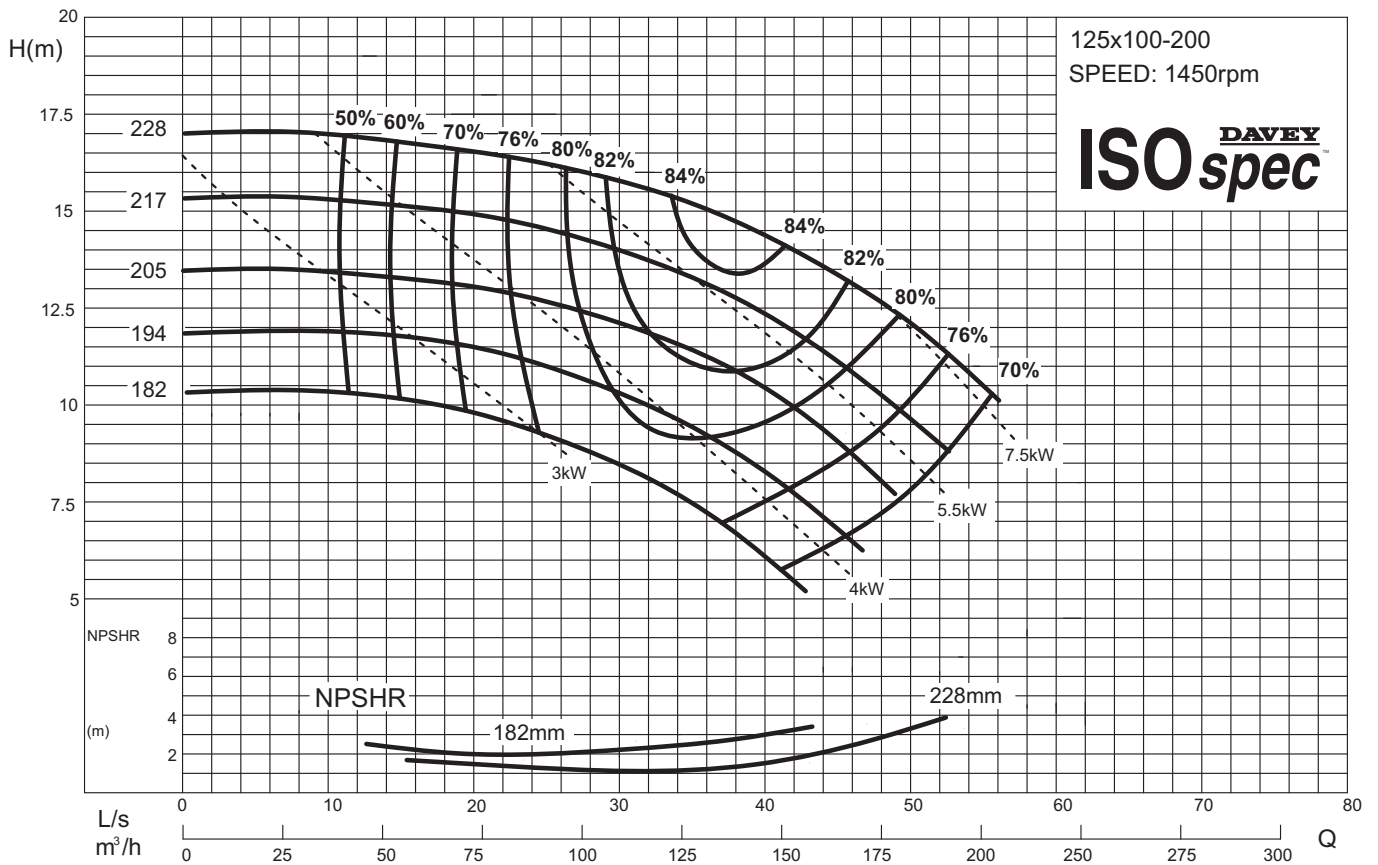
## CF Series Performance Curve 125x80-400



# TECHNICAL SPECIFICATIONS



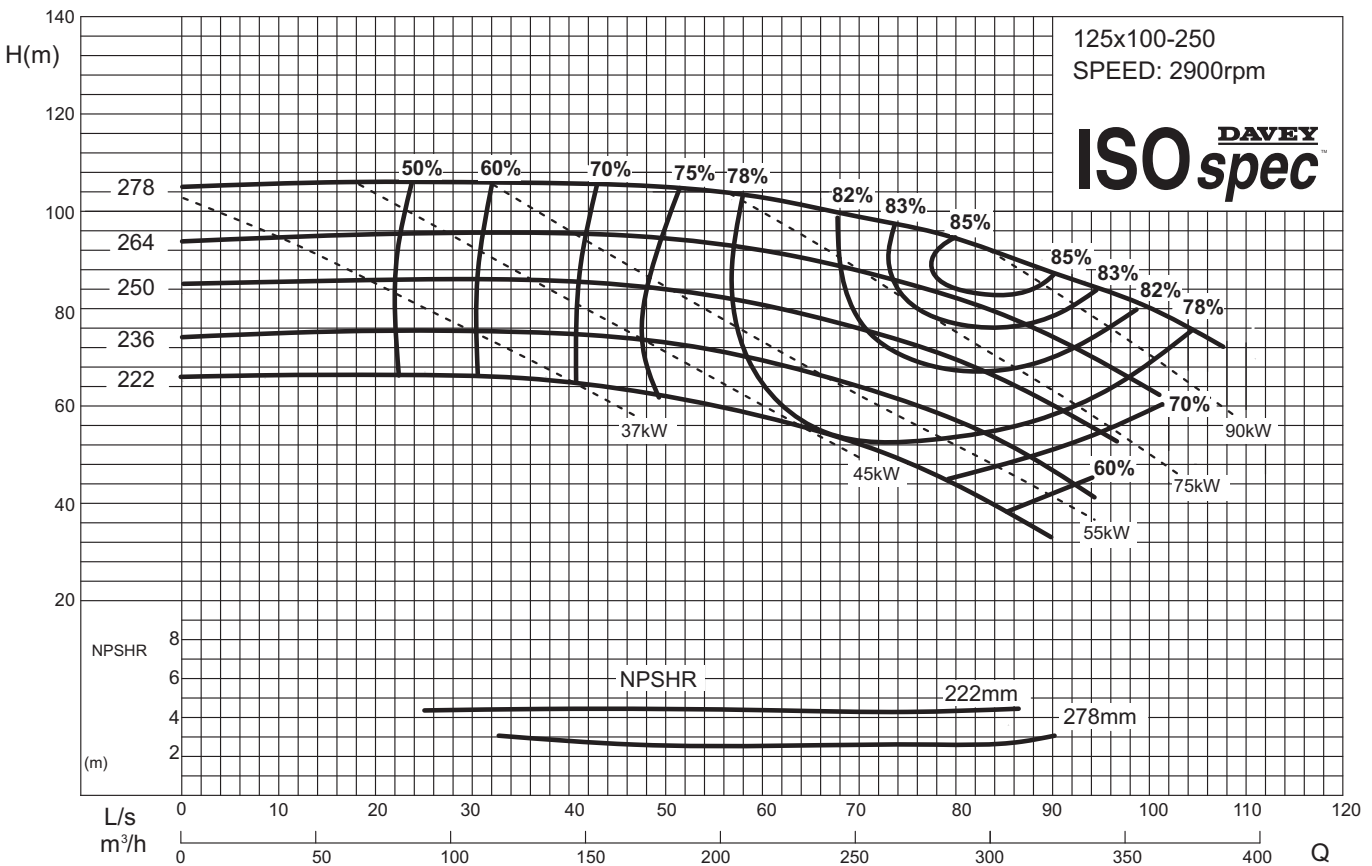
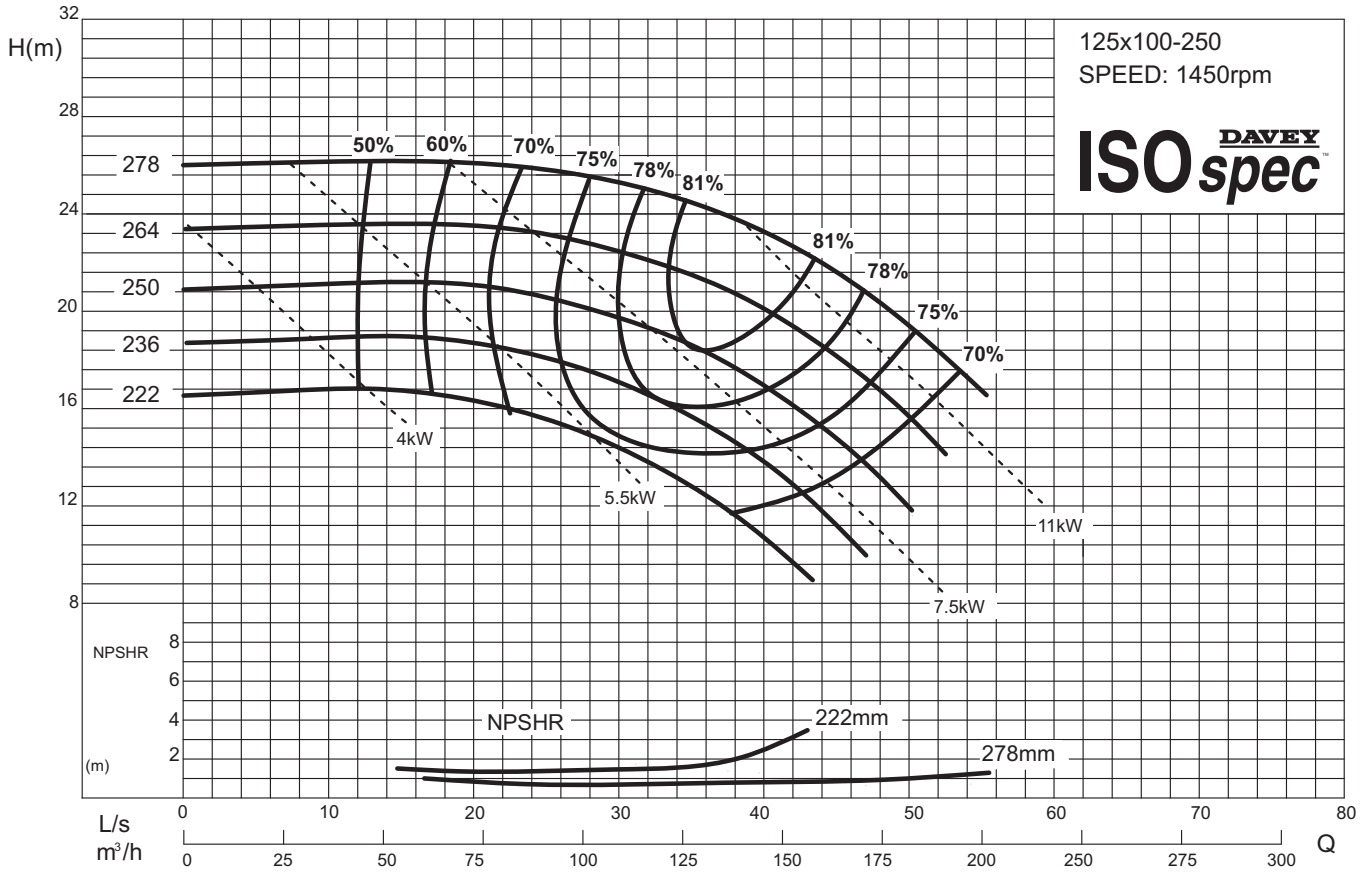
## CF & CM Series Performance Curve 125x100-200



# TECHNICAL SPECIFICATIONS



## CF & CM Series Performance Curve 125x100-250

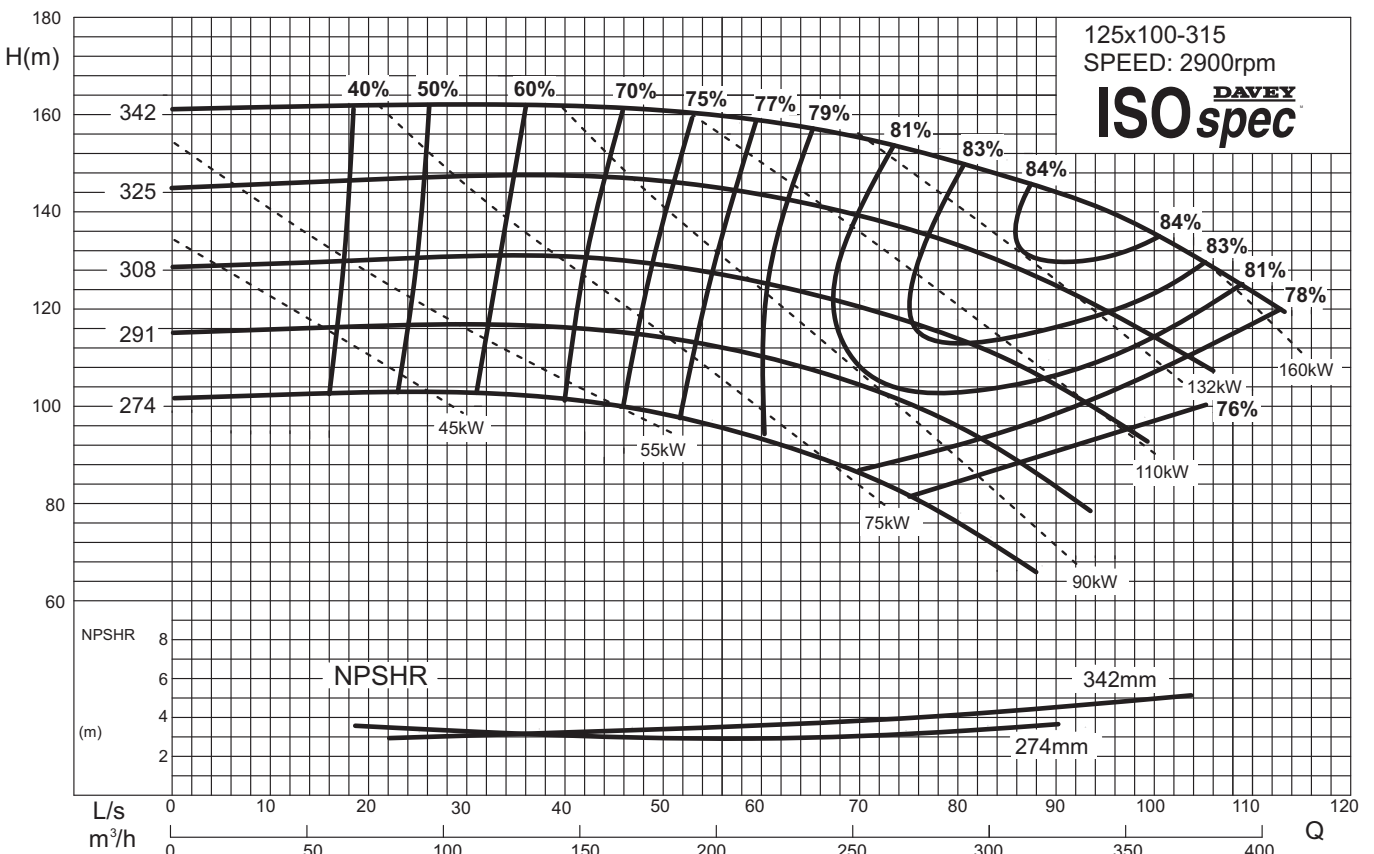
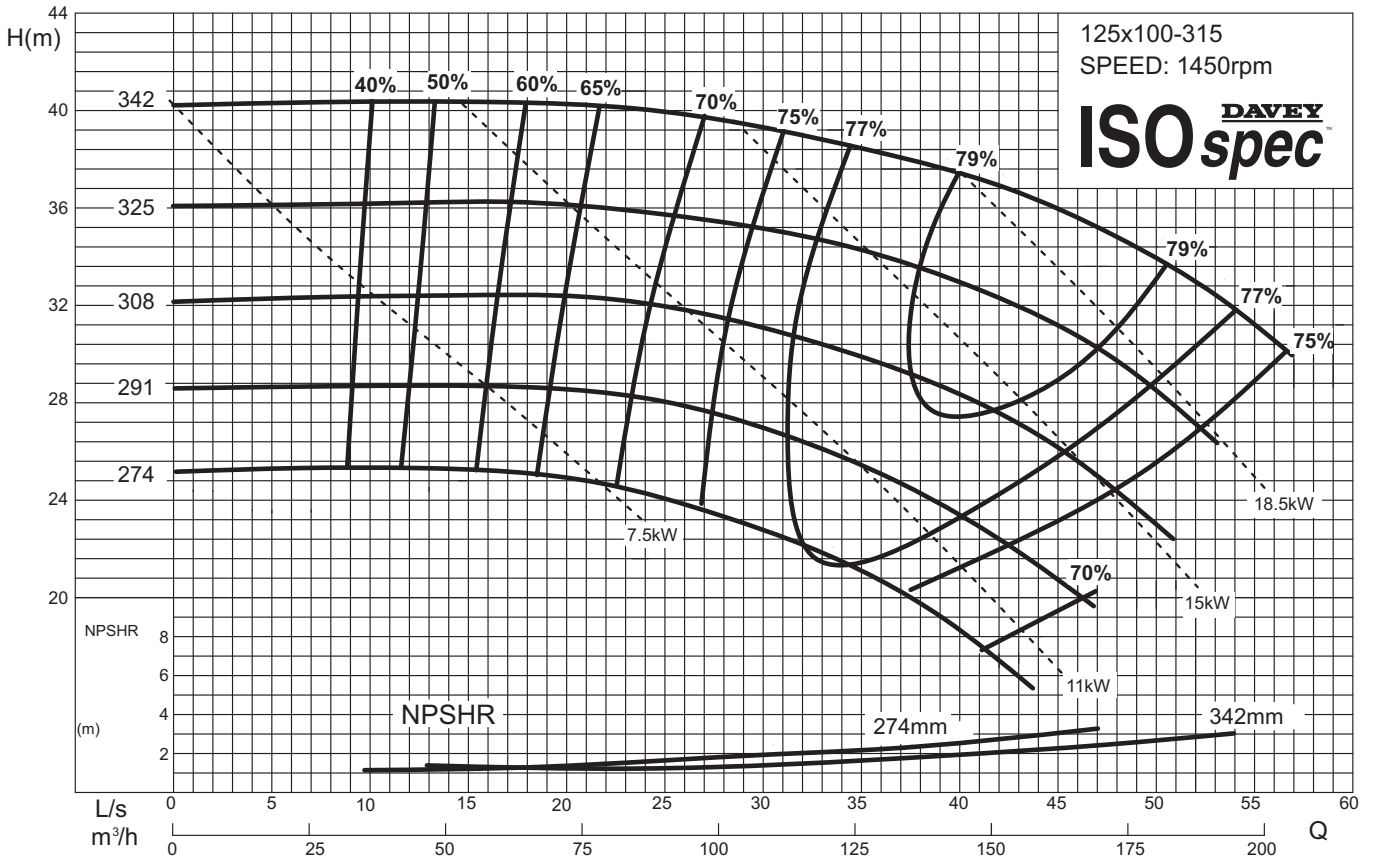




# TECHNICAL SPECIFICATIONS

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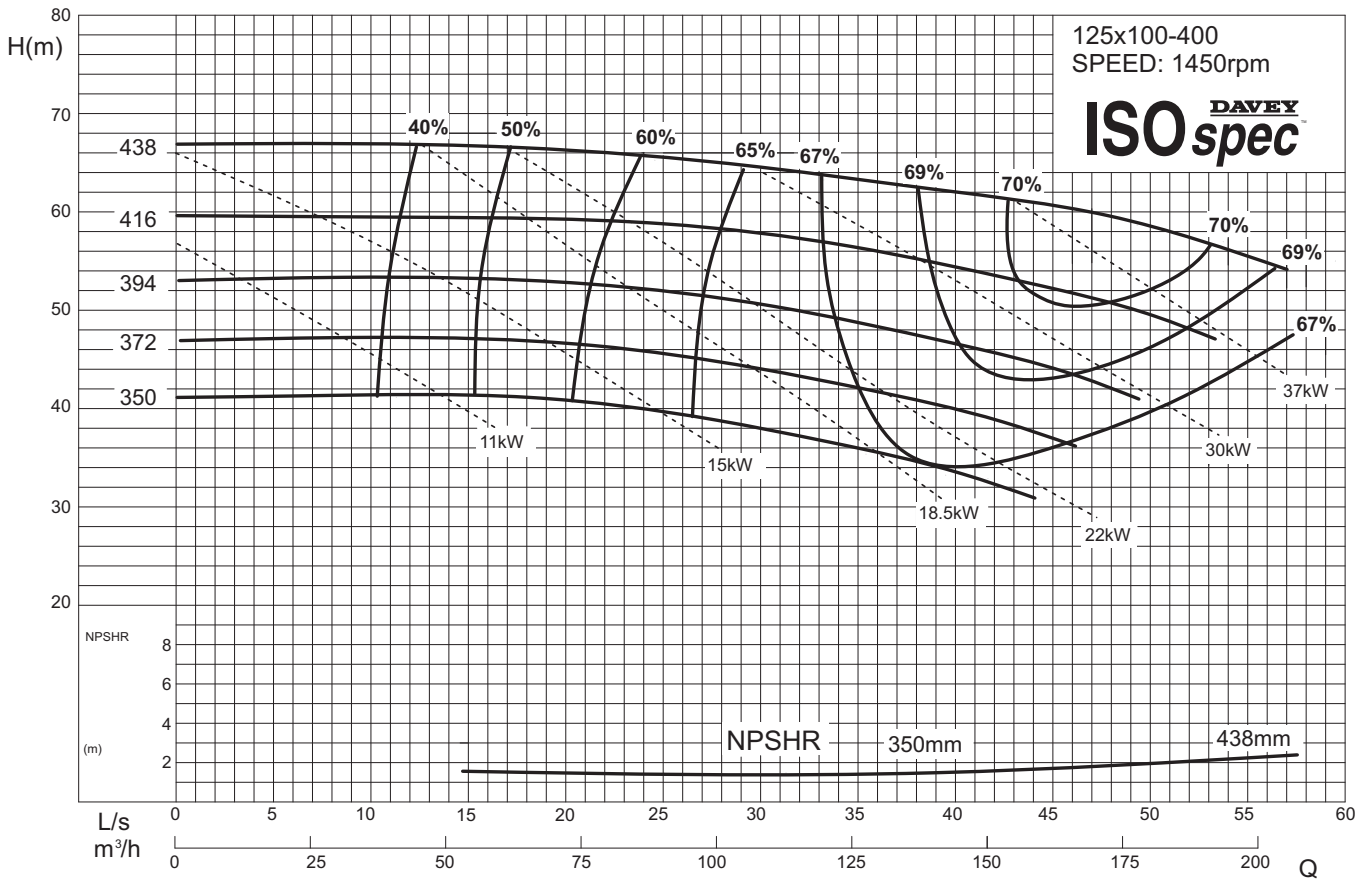
## CF & CM Series Performance Curve 125x100-315



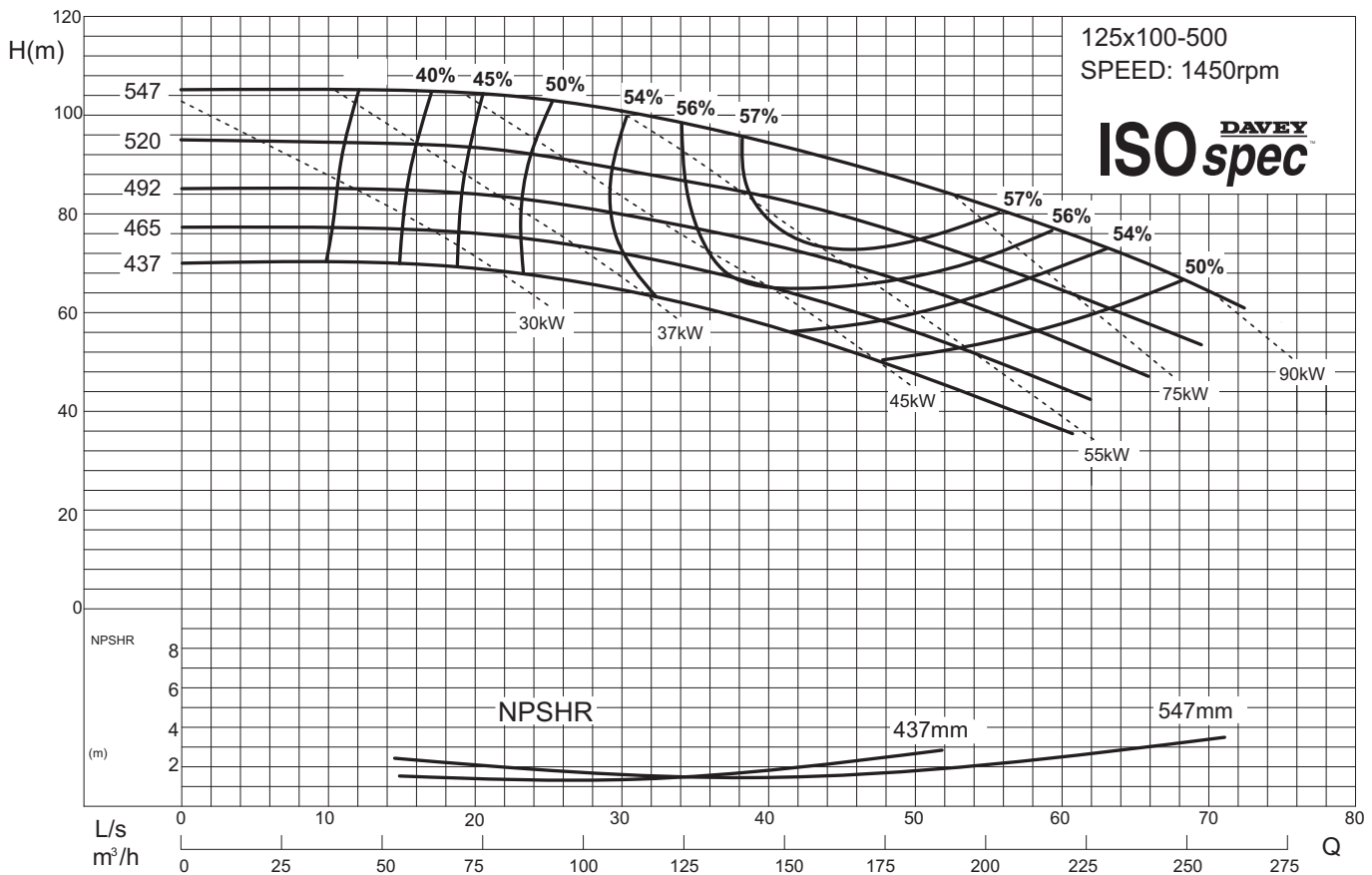
# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

## CF Series Performance Curve 125x100-400



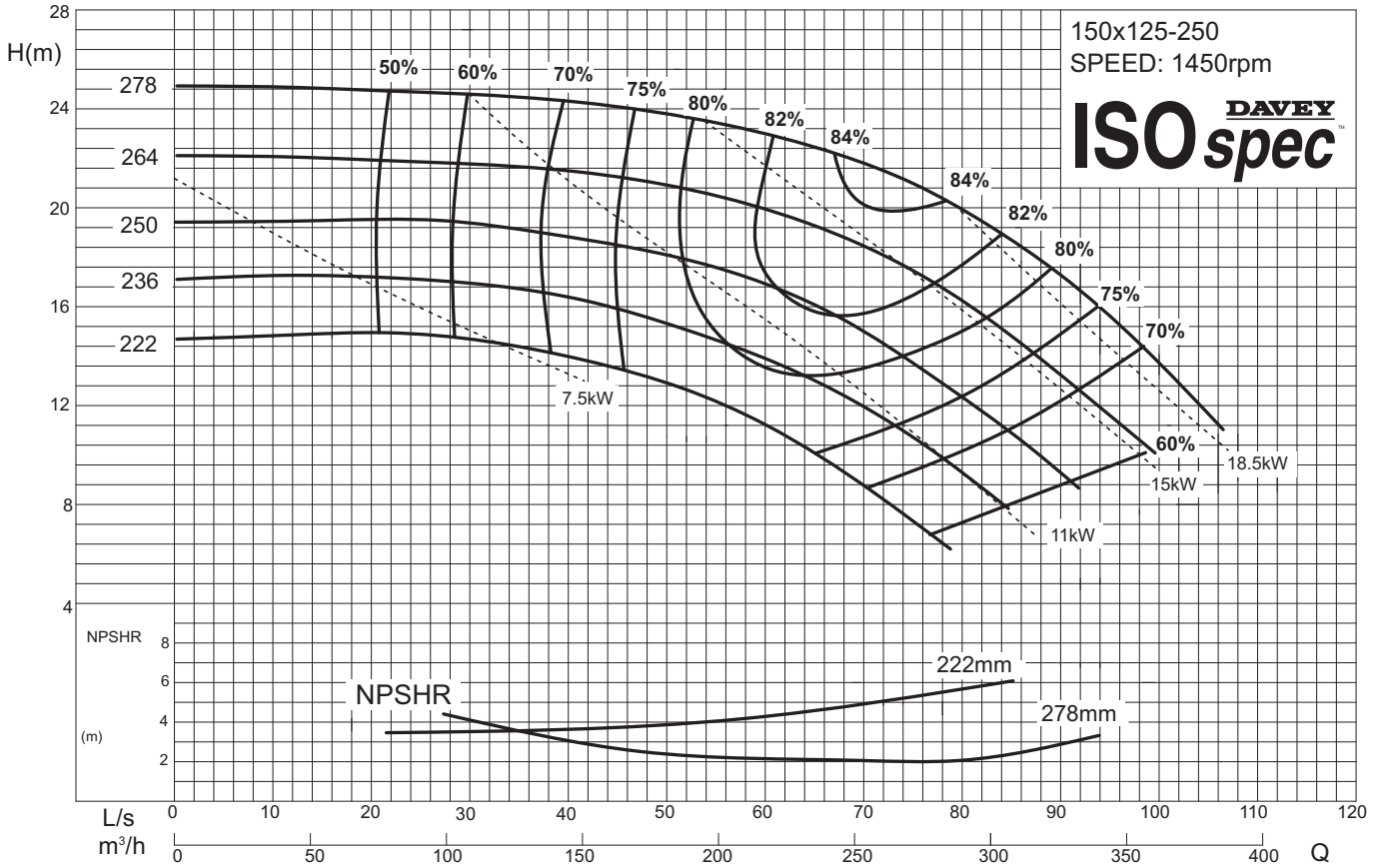
## CF Series Performance Curve 125x100-500



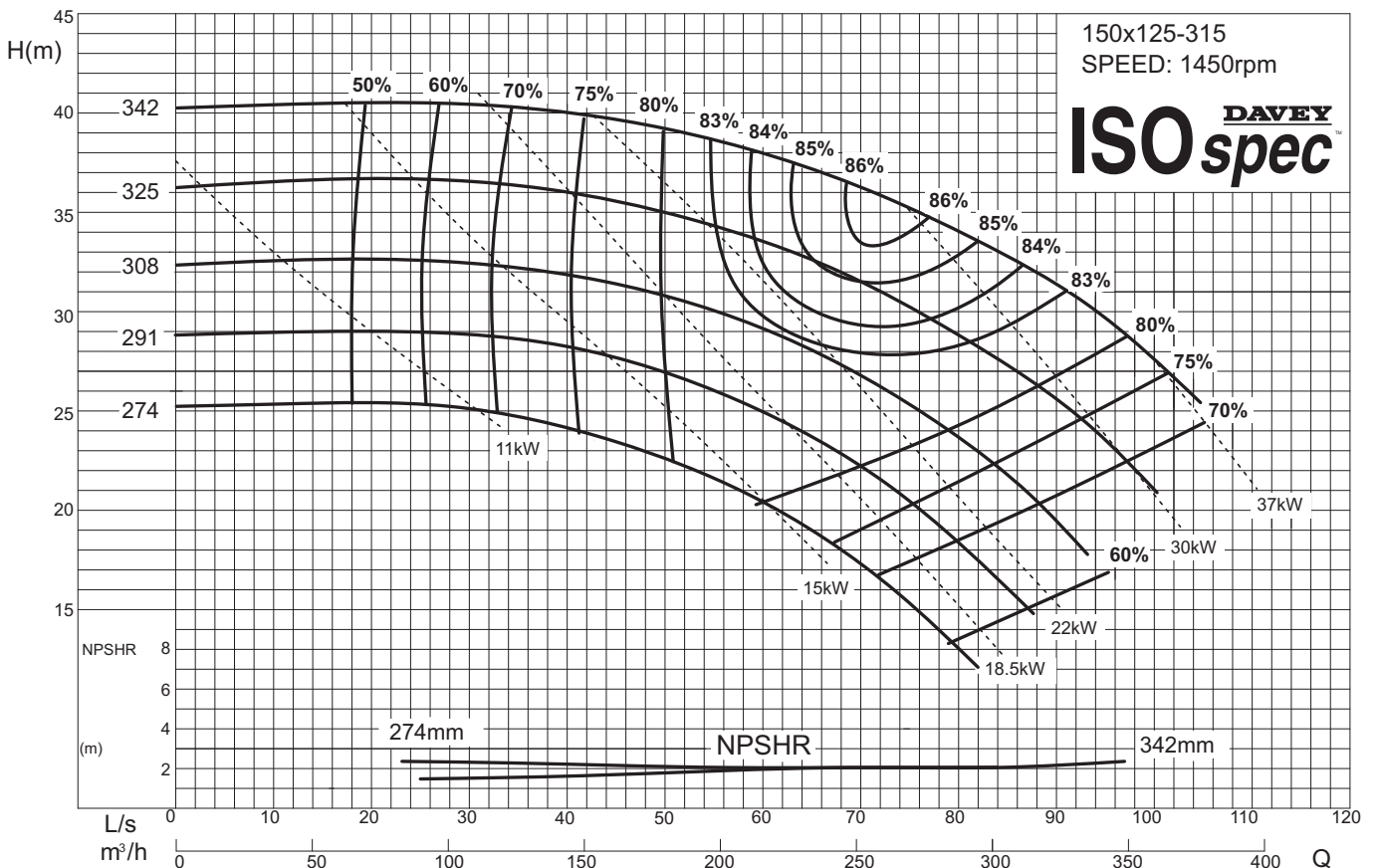
# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY®

## CF & CM Series Performance Curve 150x125-250



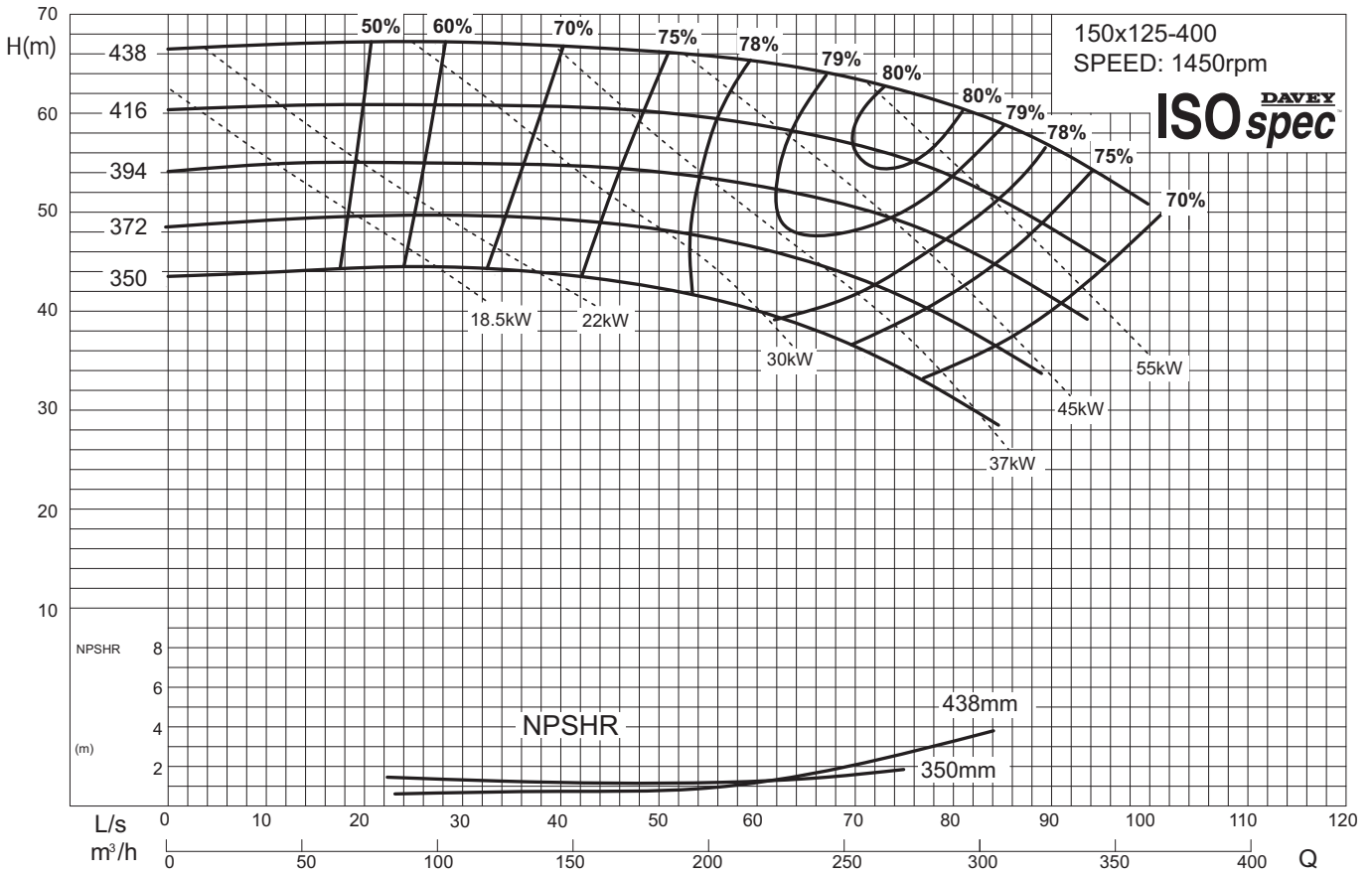
## CF & CM Series Performance Curve 150x125-315



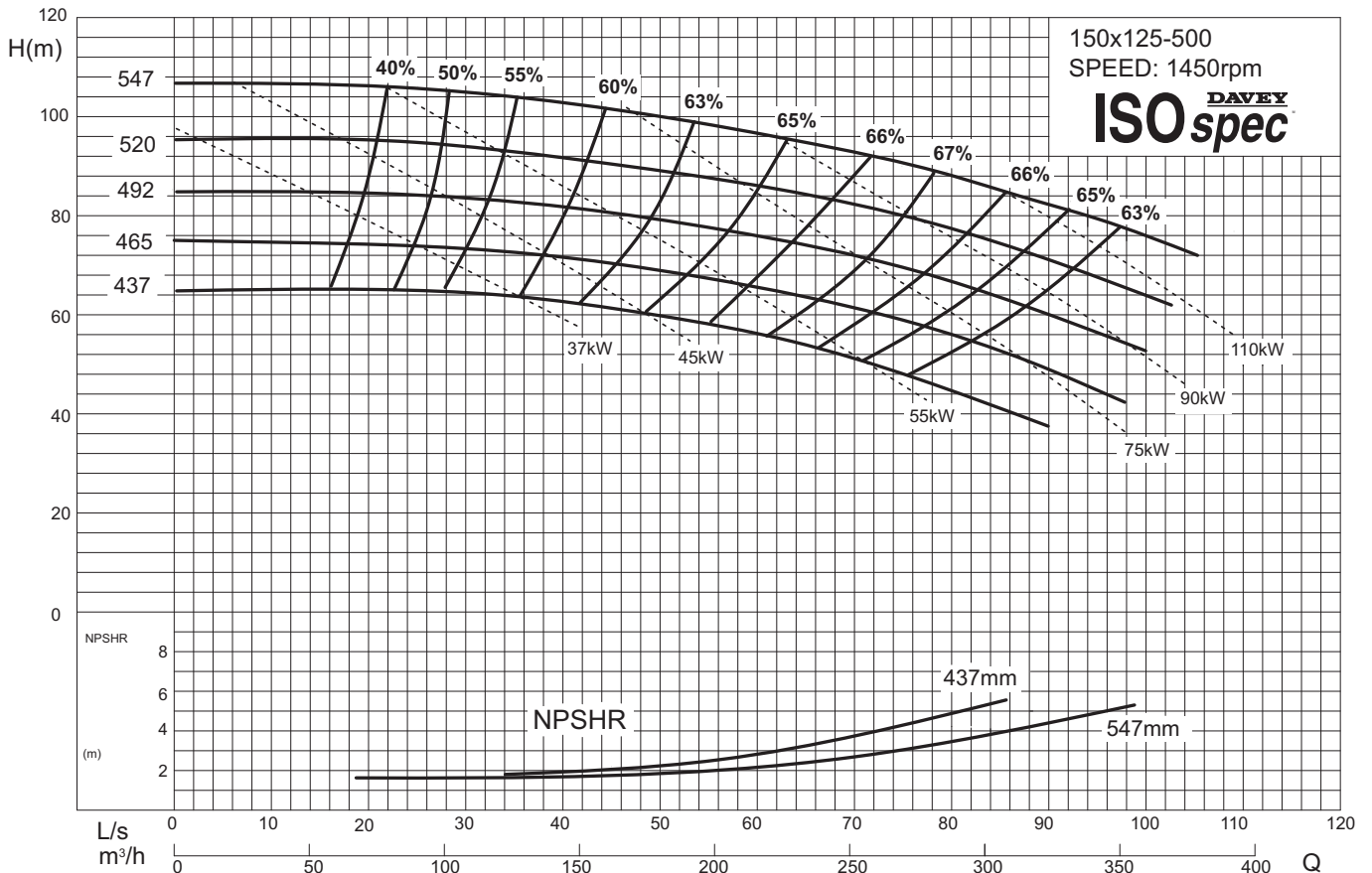
# TECHNICAL SPECIFICATIONS



## CF Series Performance Curve 150x125-400



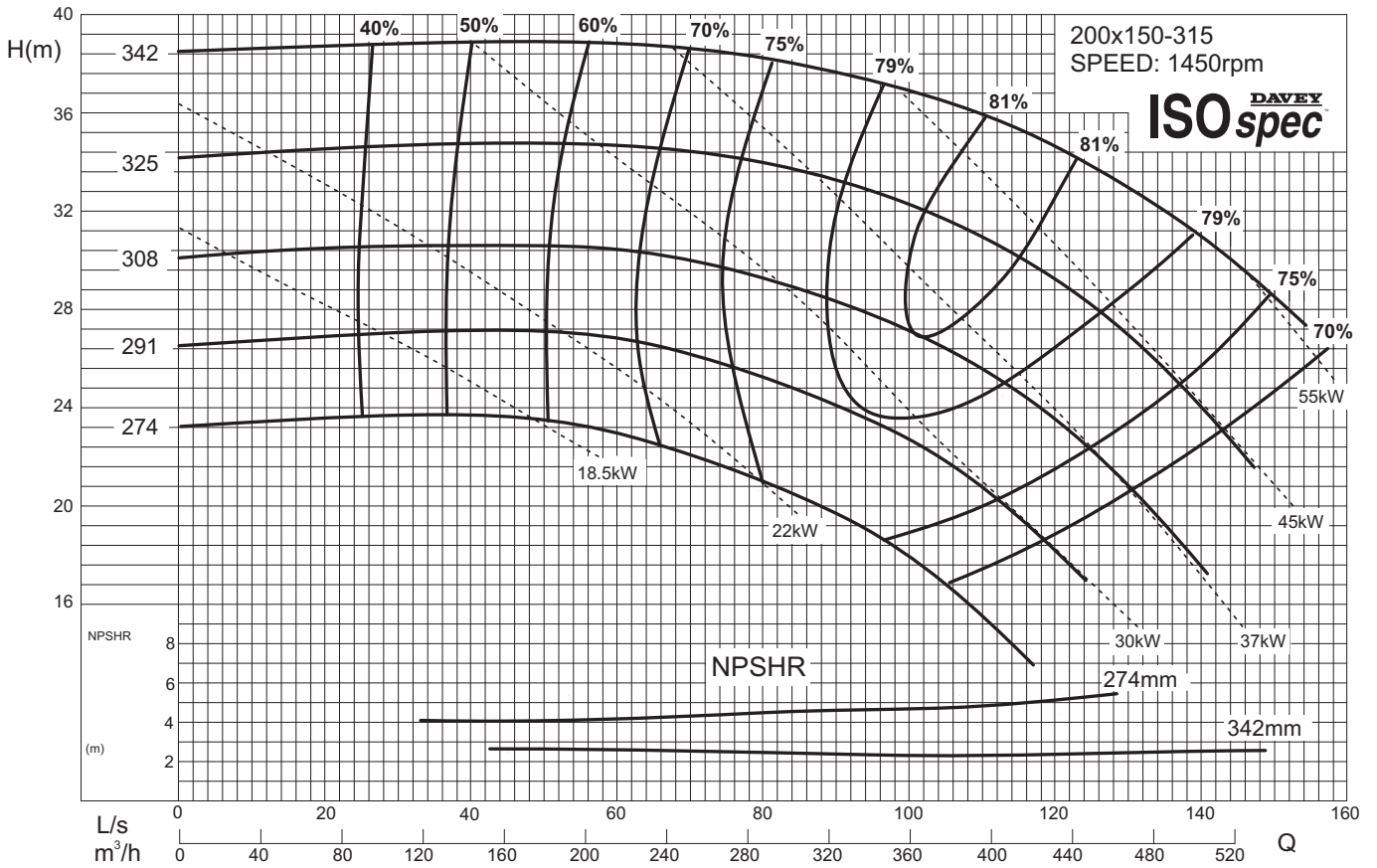
## CF Series Performance Curve 150x125-500



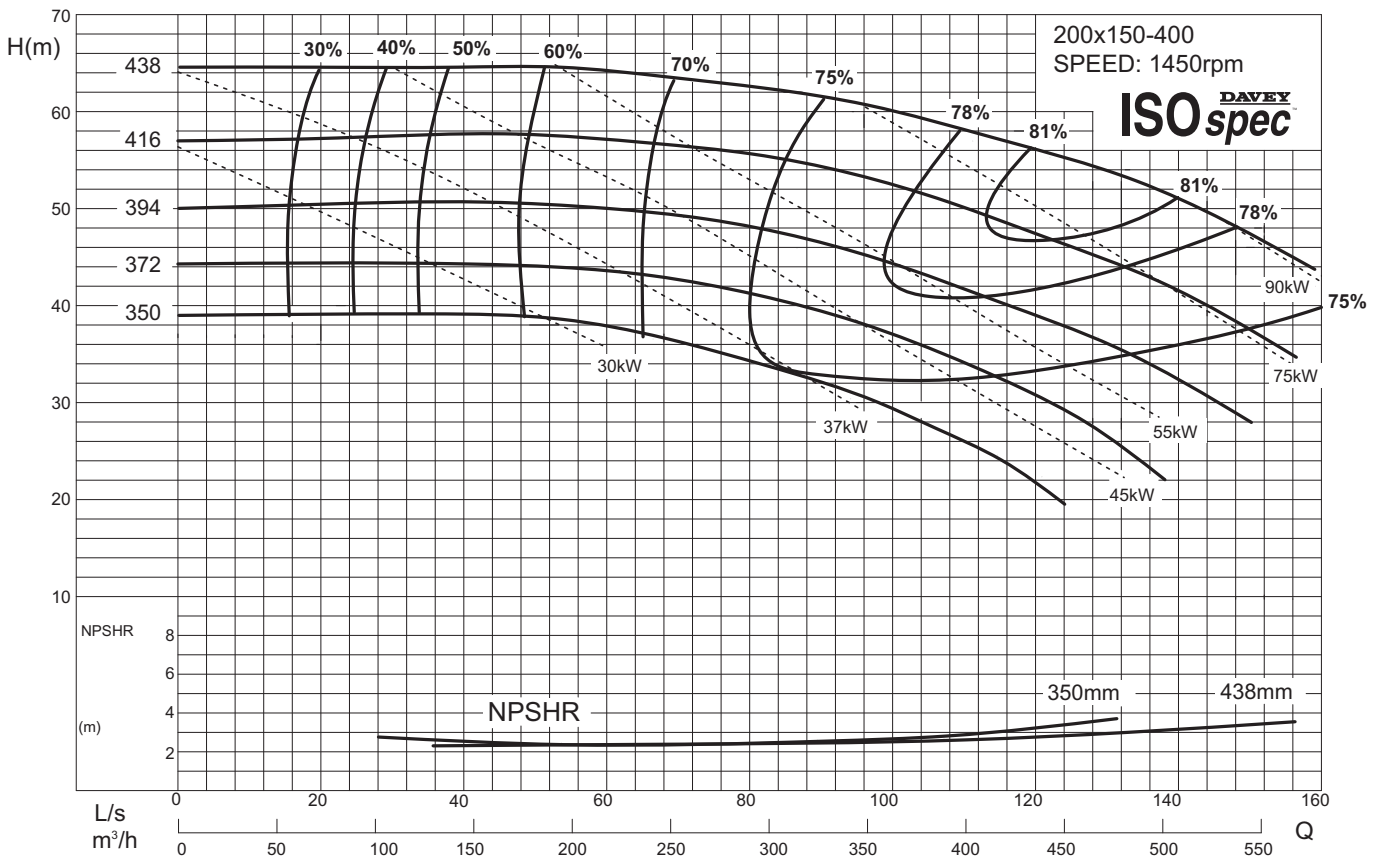
# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

## CF Series Performance Curve 200x150-315



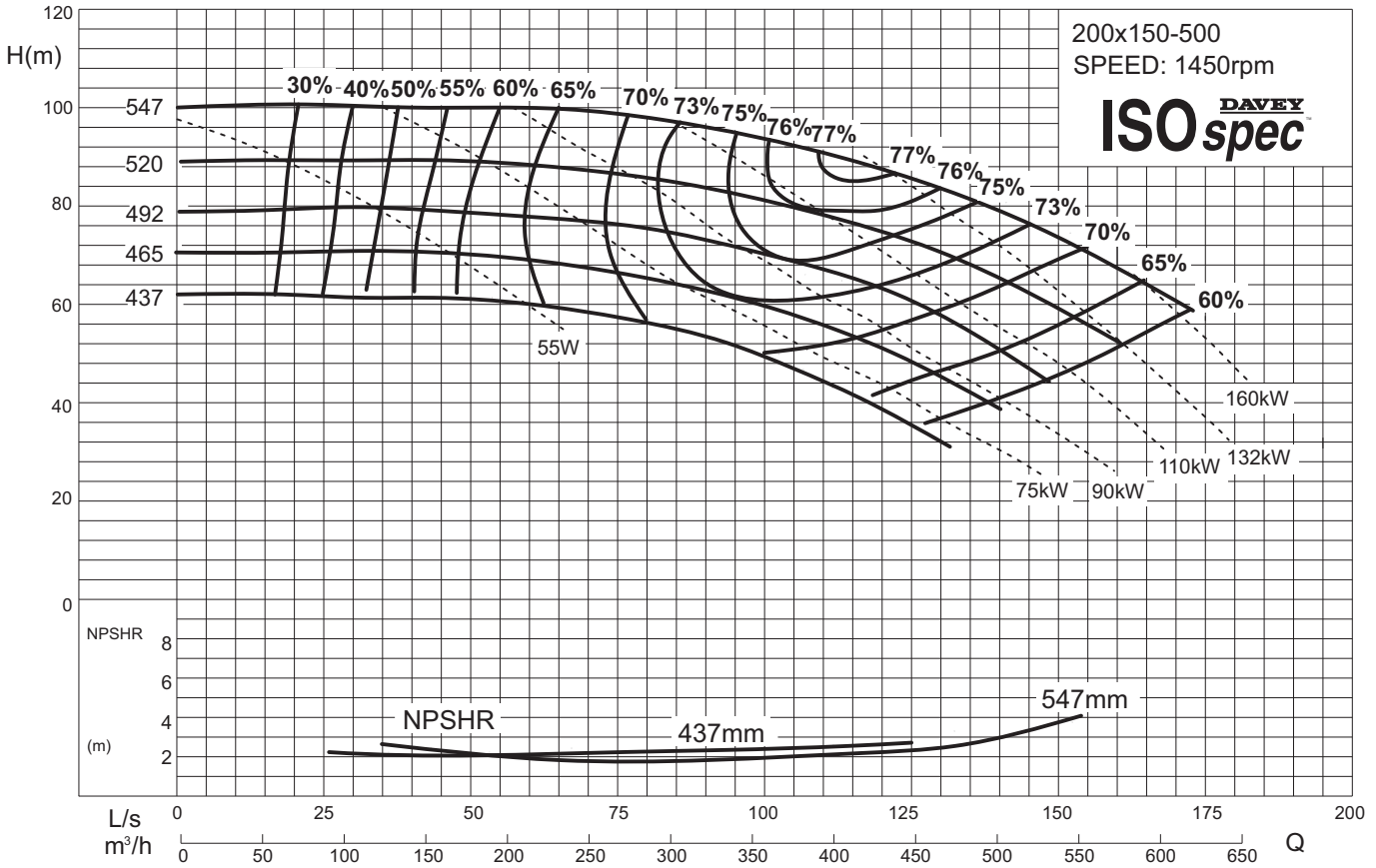
## CF Series Performance Curve 200x150-400



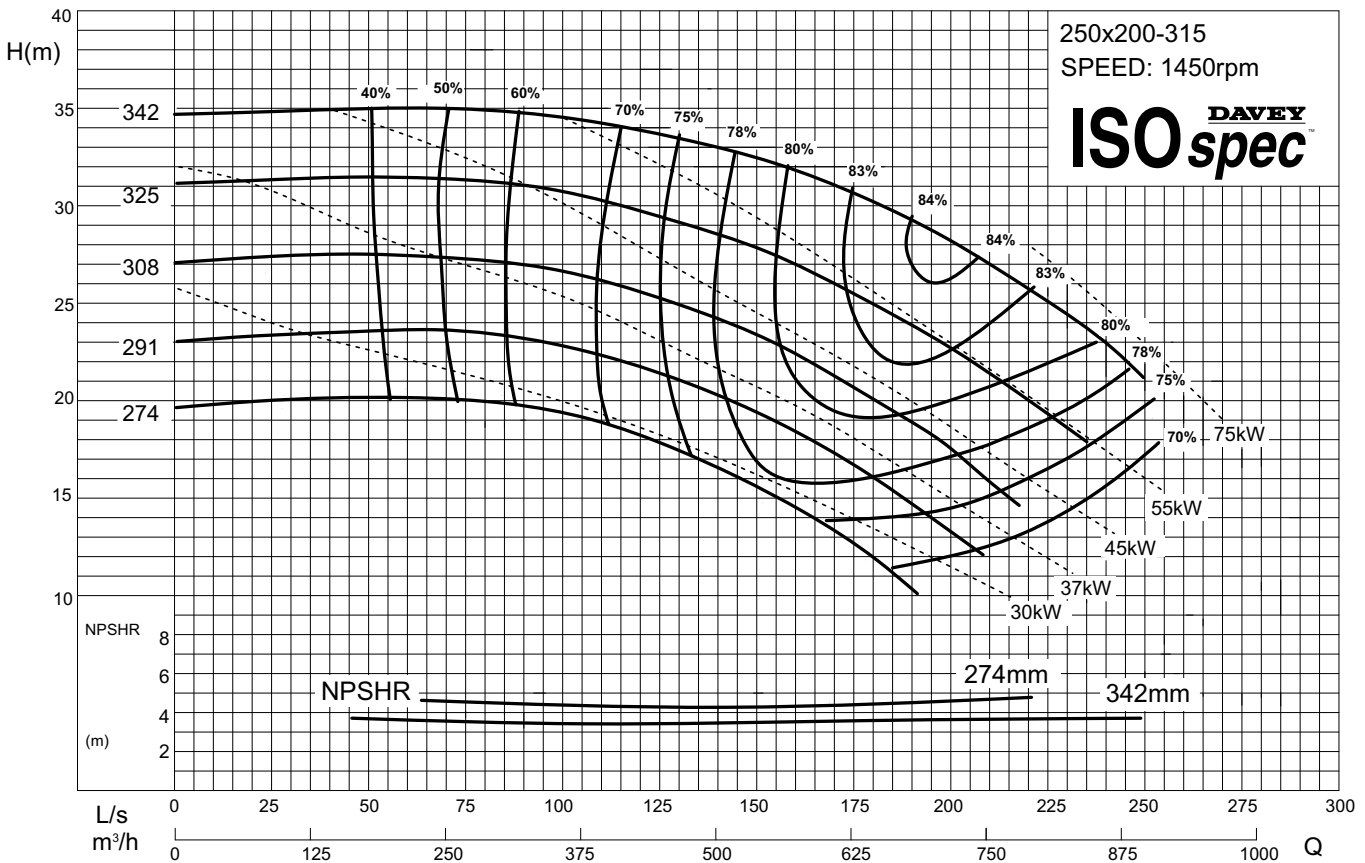
# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

## CF Series Performance Curve 200x150-500



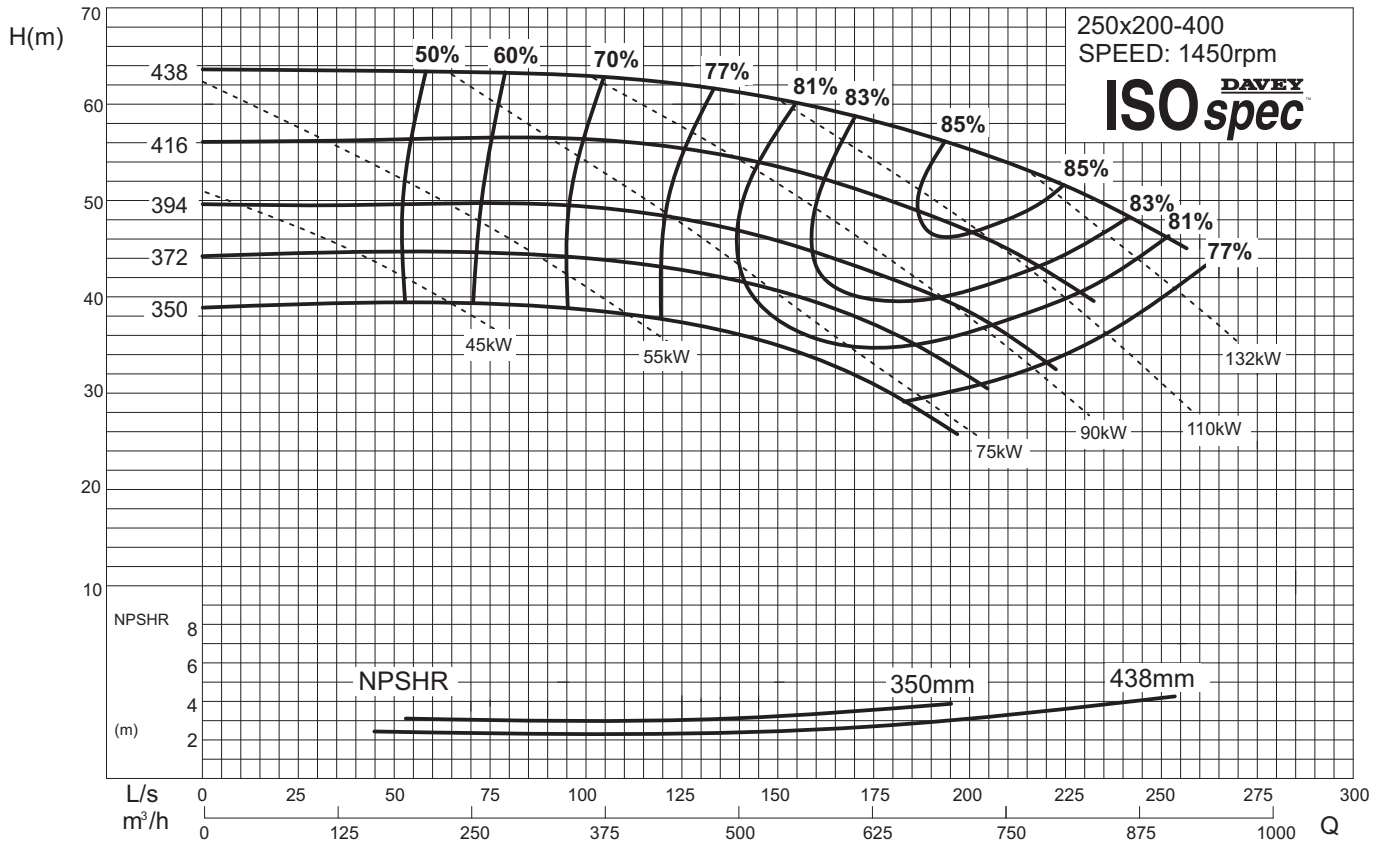
## CF Series Performance Curve 250x200-315



# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY®

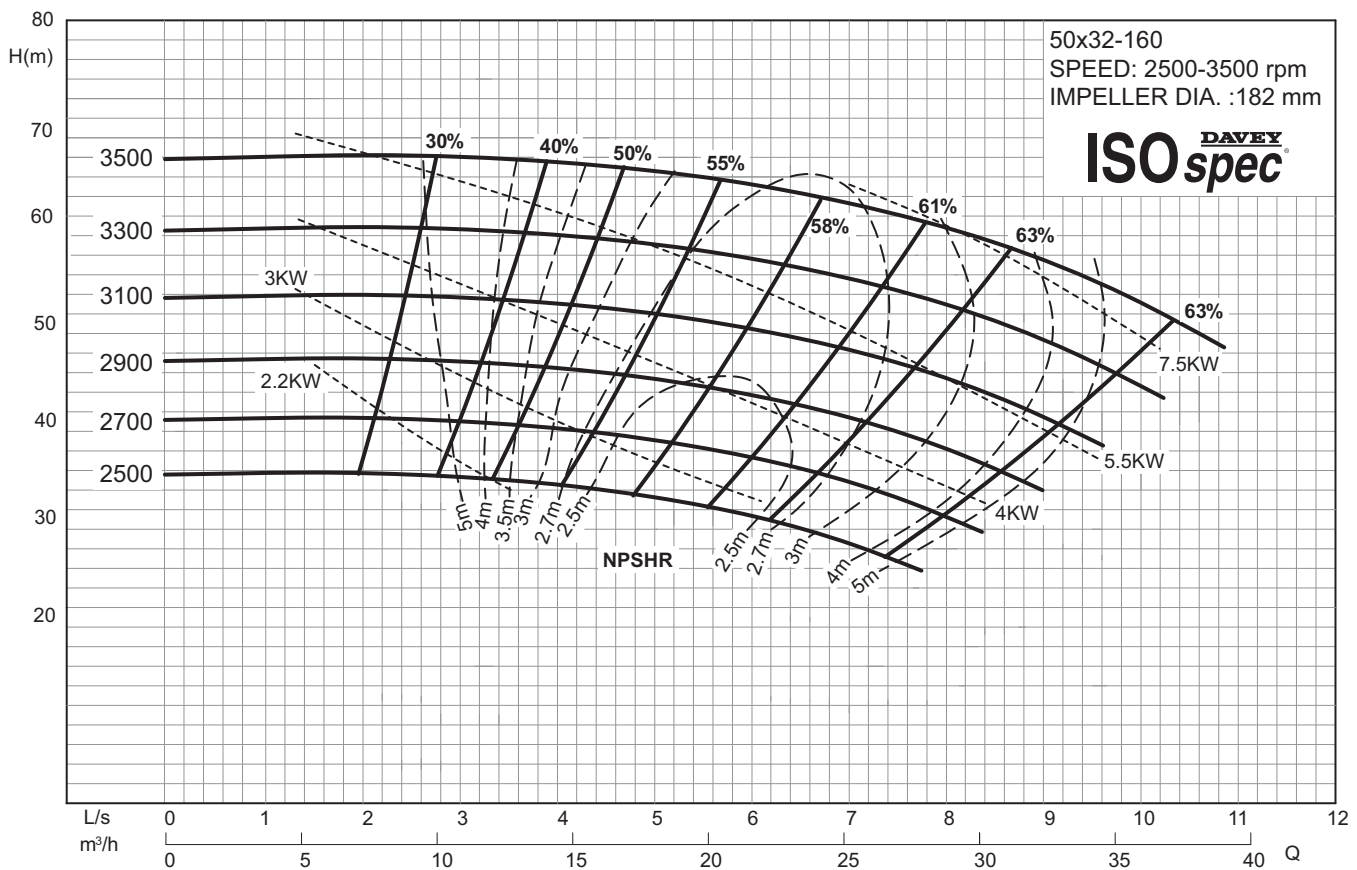
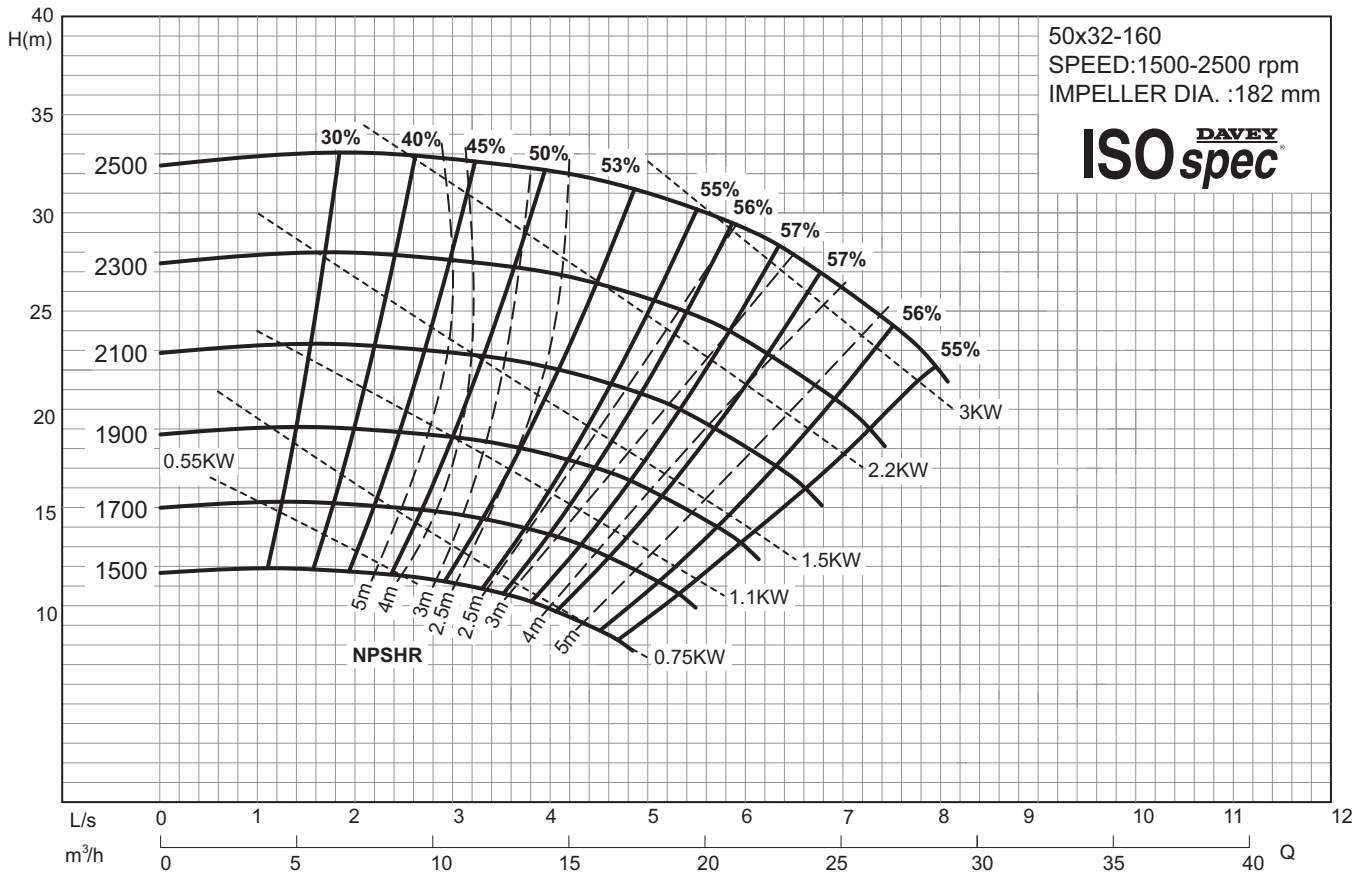
## CF Series Performance Curve 250x200-400



# TECHNICAL SPECIFICATIONS



## CF Series Variable Speed Performance Curve 50x32-160

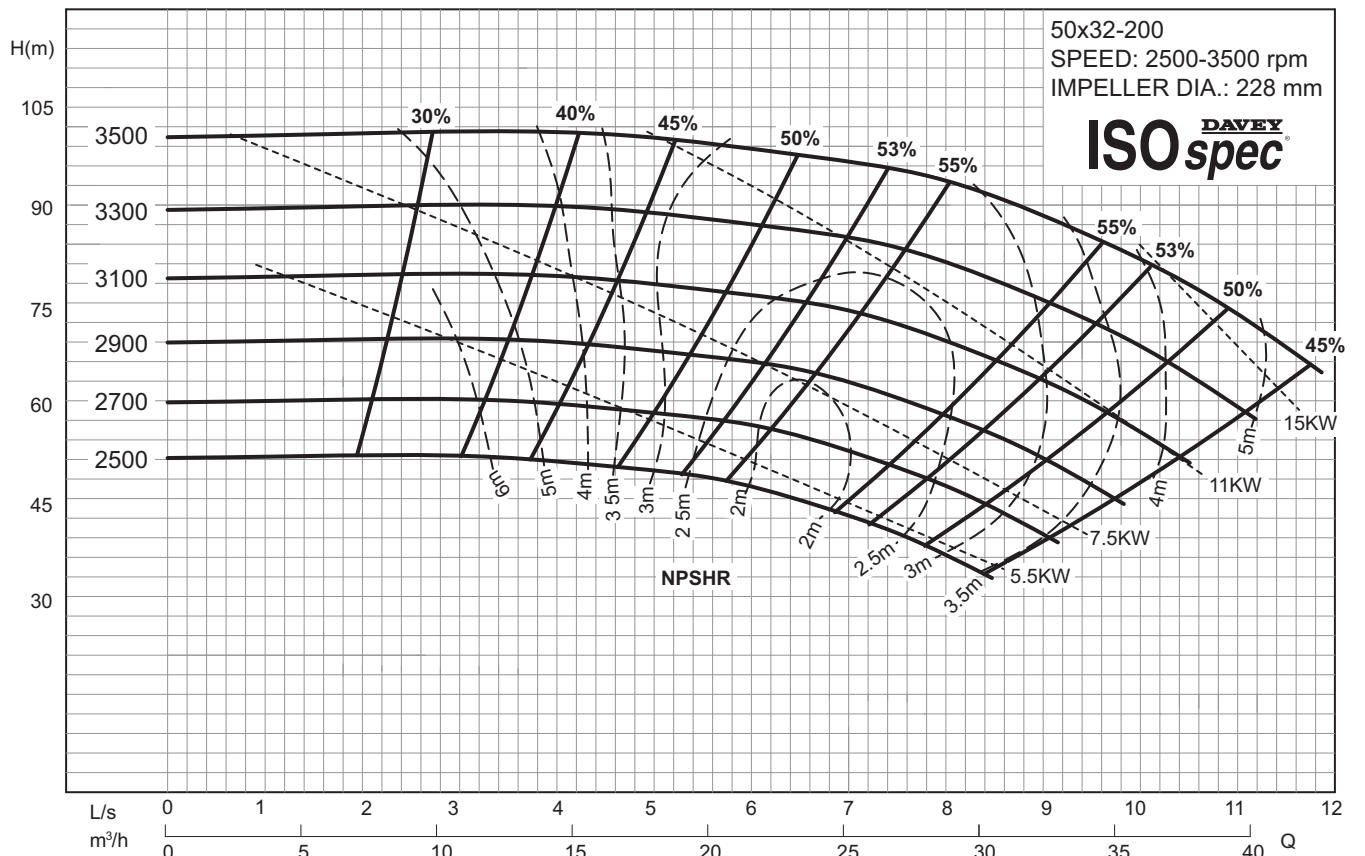
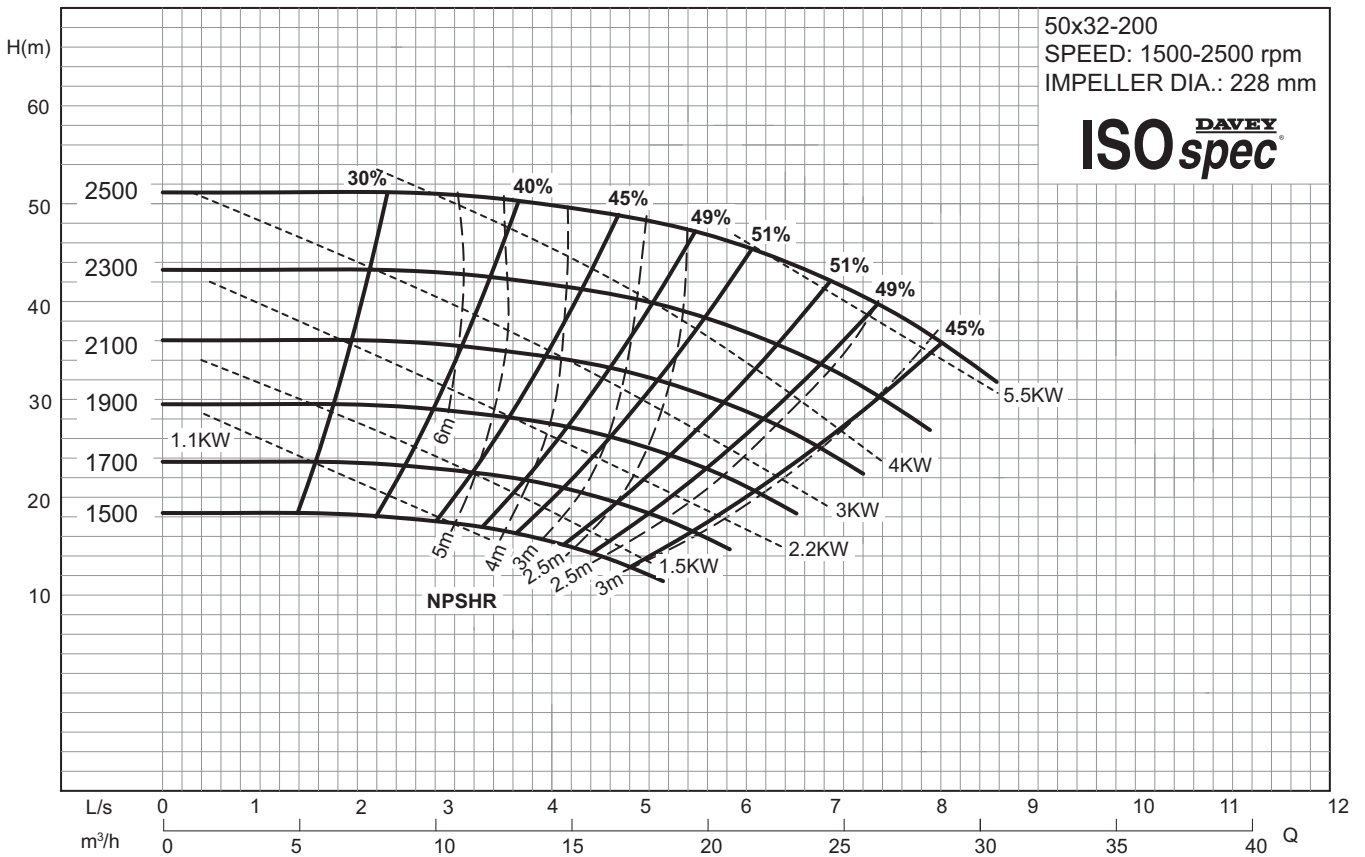




# TECHNICAL SPECIFICATIONS



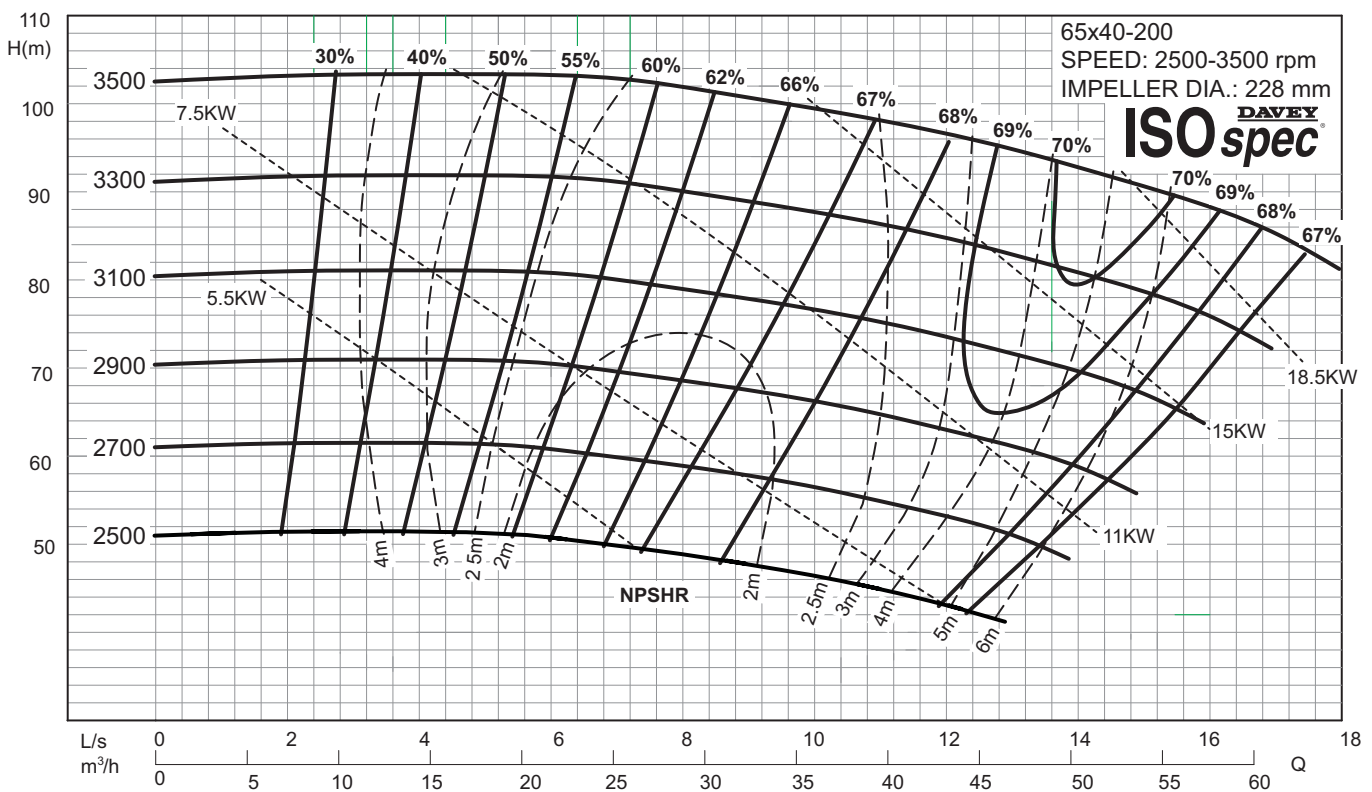
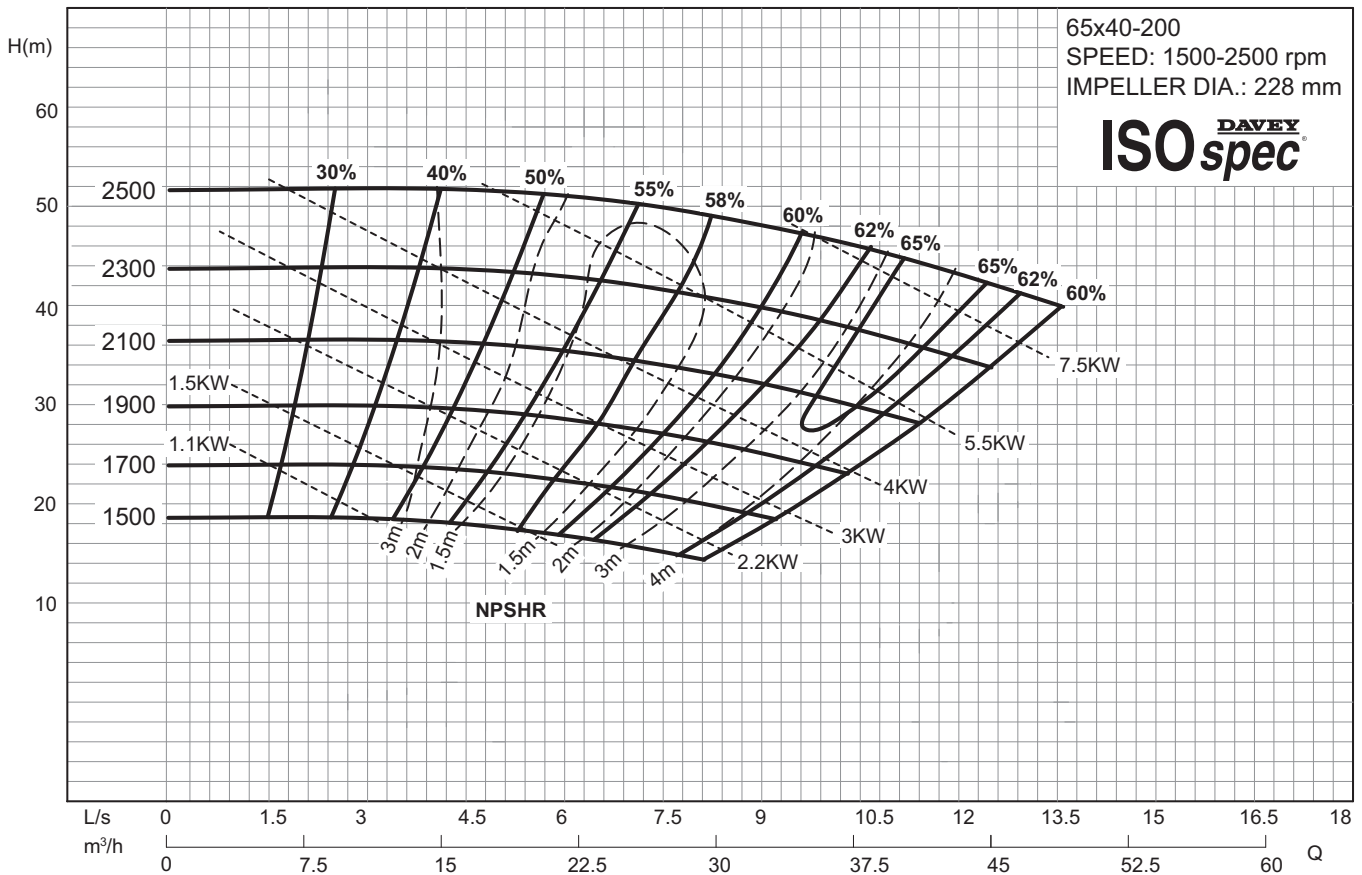
## *CF Series Variable Speed Performance Curve 50x32-200*



# TECHNICAL SPECIFICATIONS



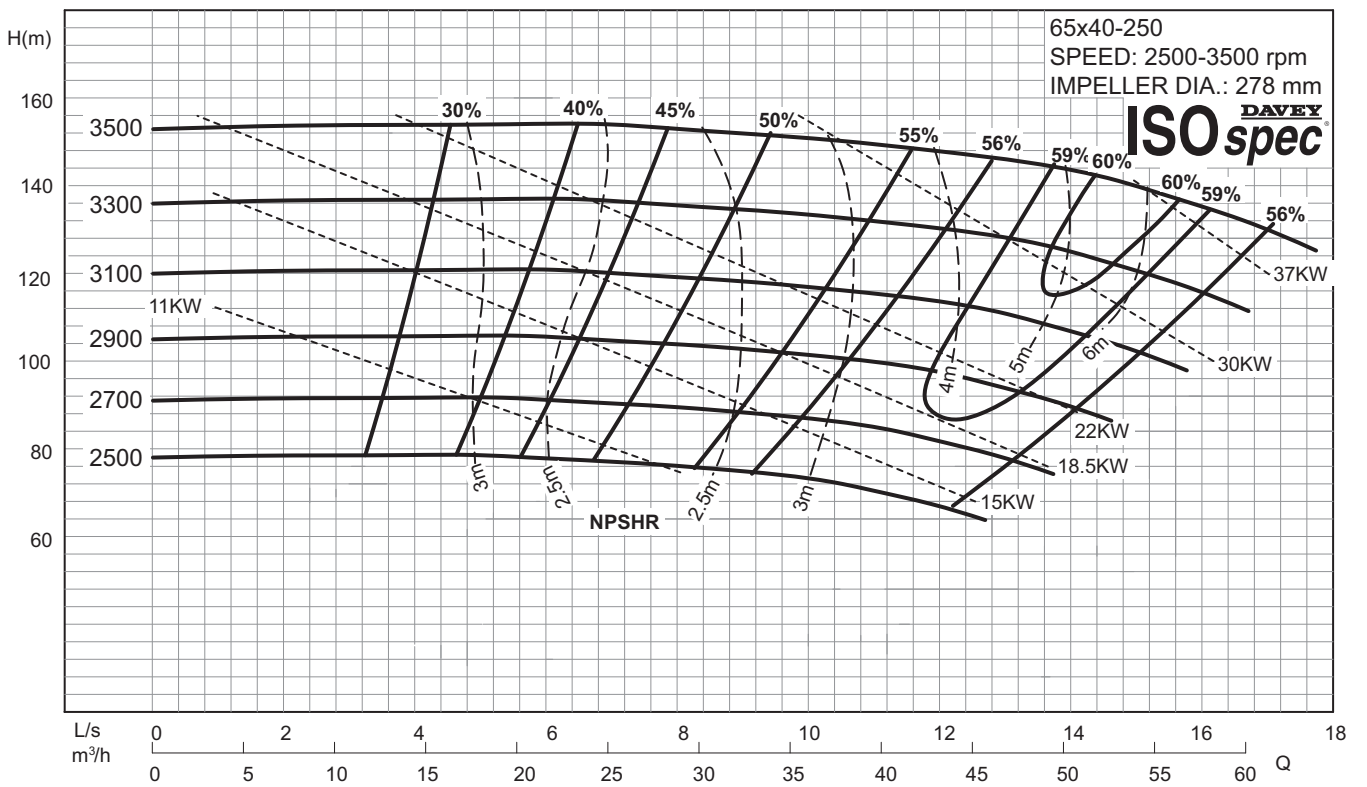
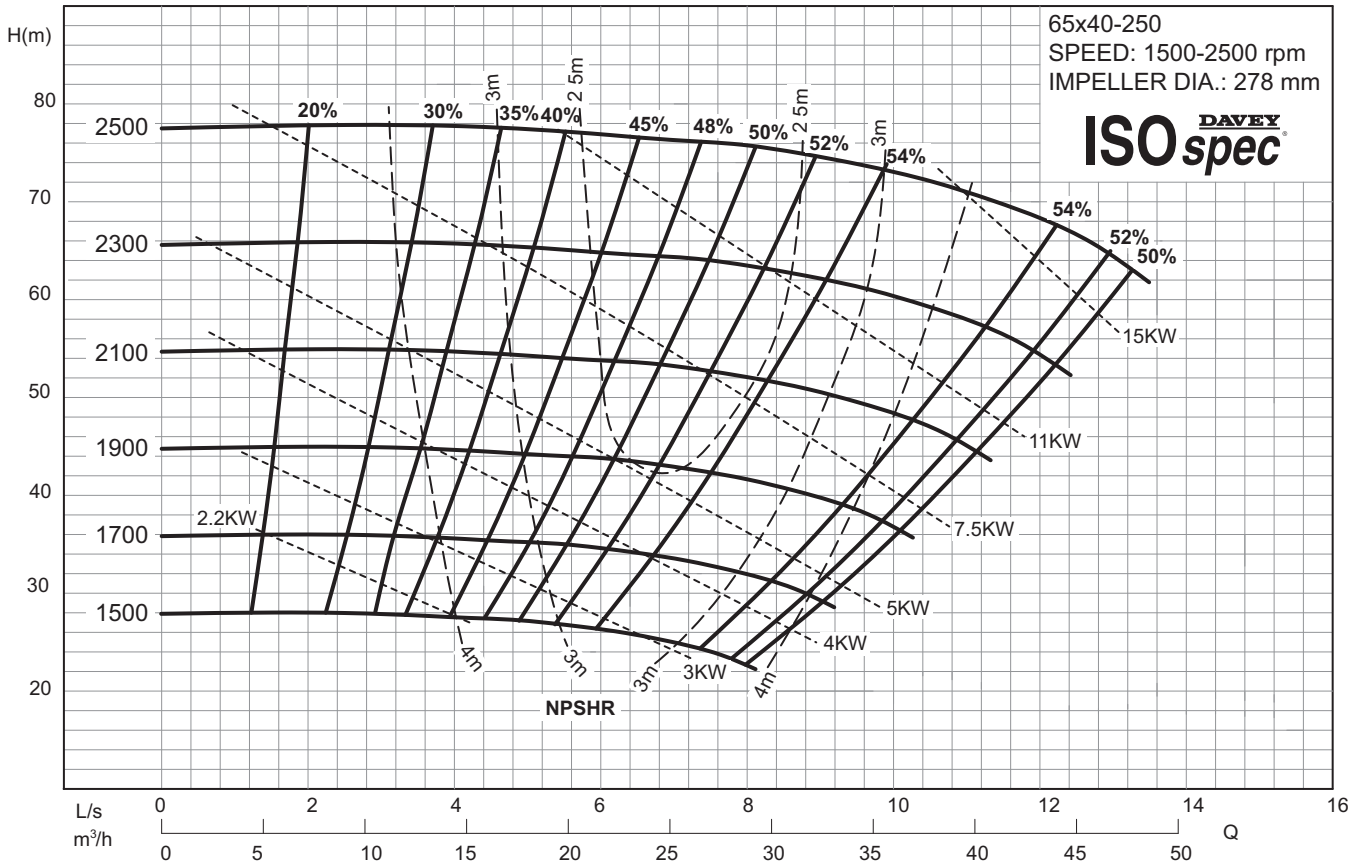
## CF Series Variable Speed Performance Curve 65x40-200



# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

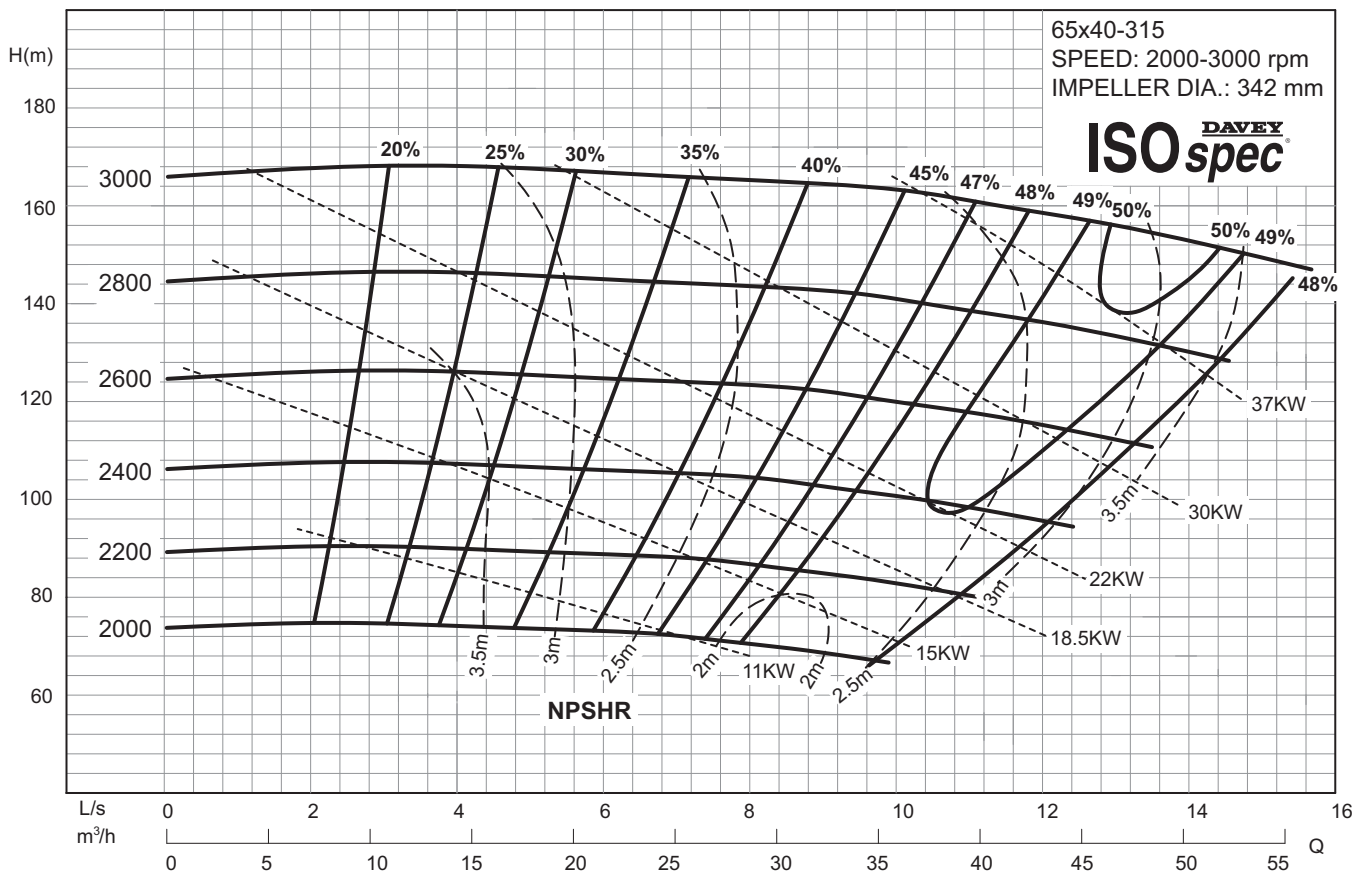
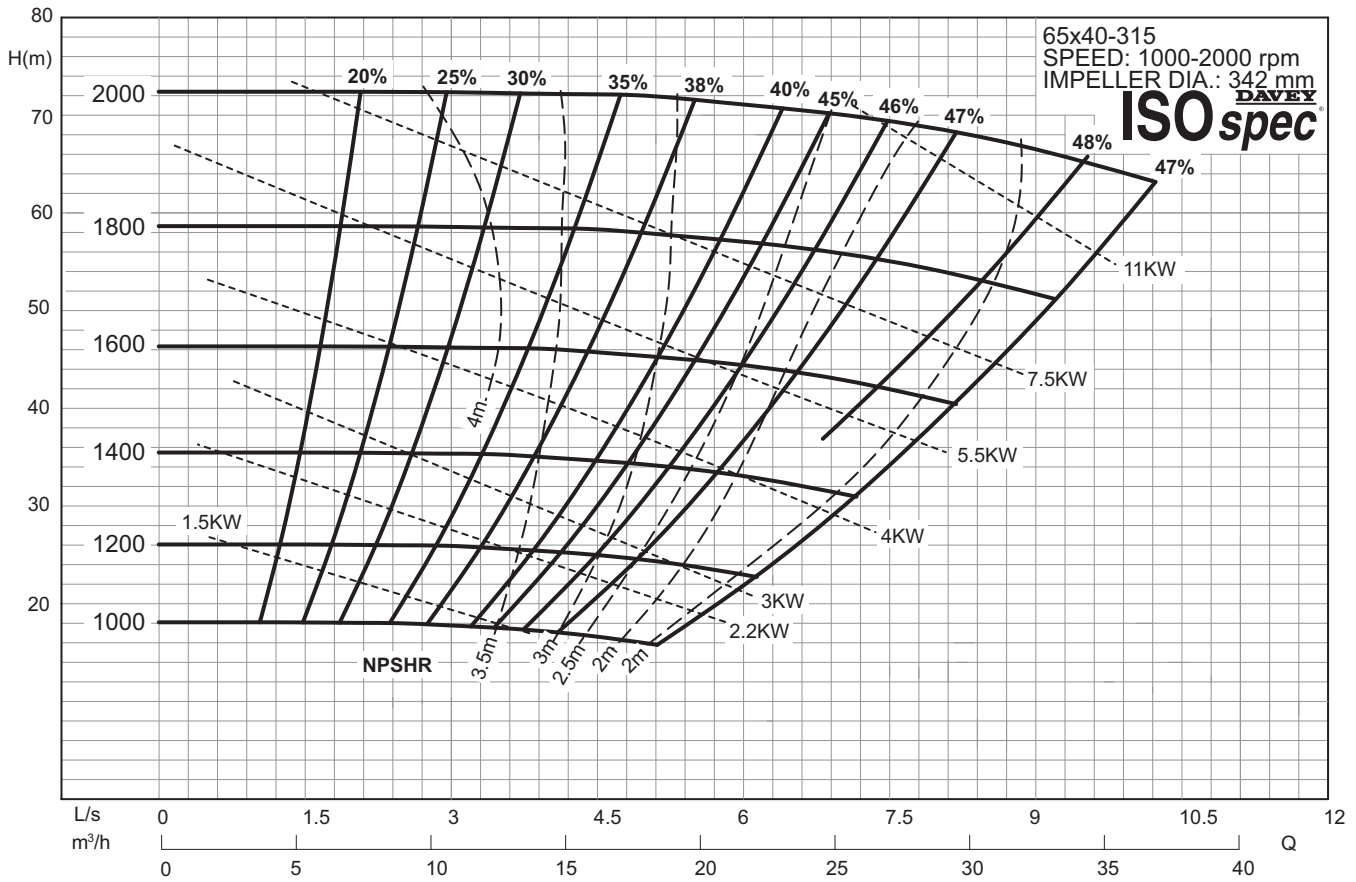
## CF Series Variable Speed Performance Curve 65x40-250



# TECHNICAL SPECIFICATIONS



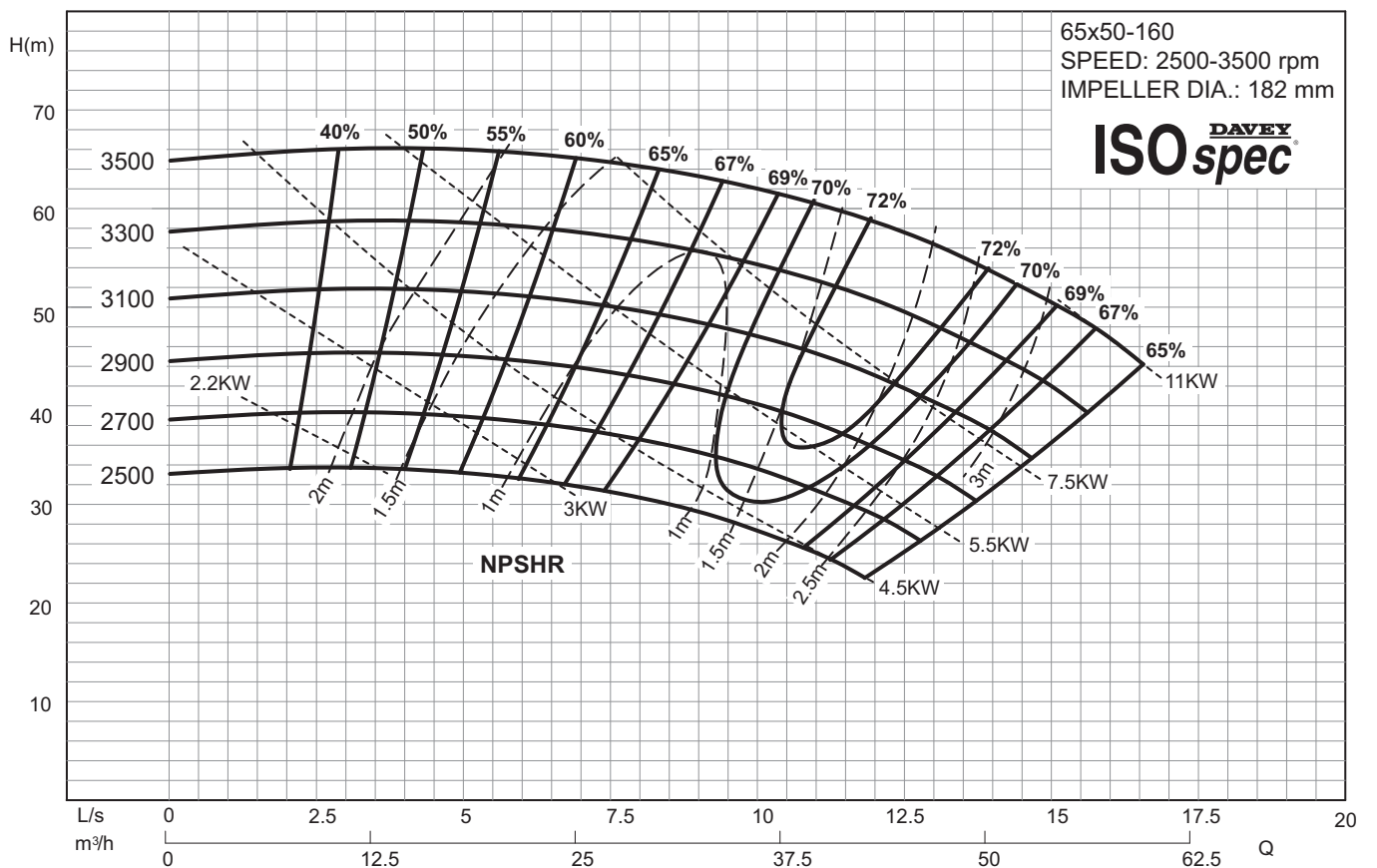
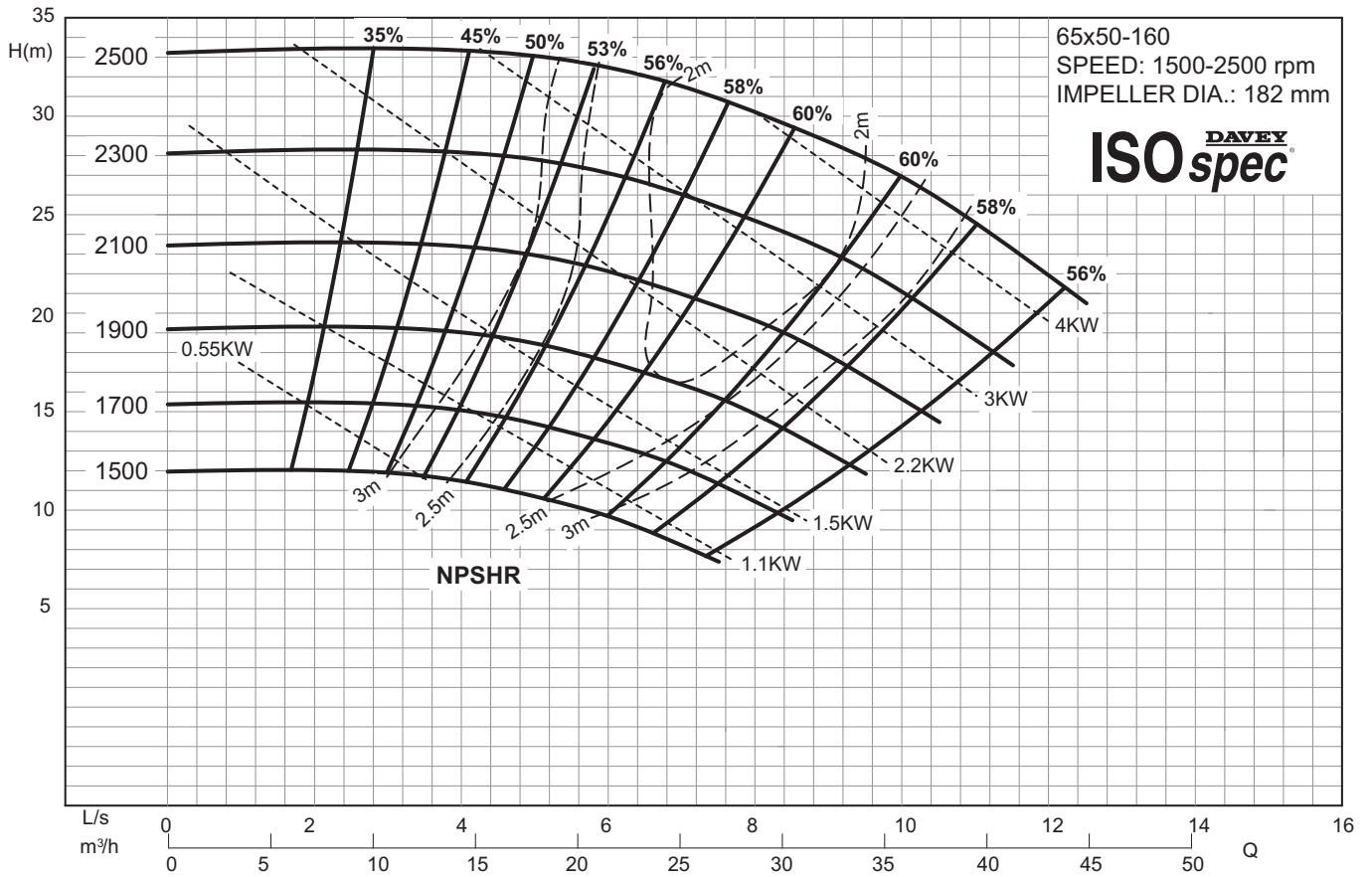
## CF Series Variable Speed Performance Curve 65x40-315



# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

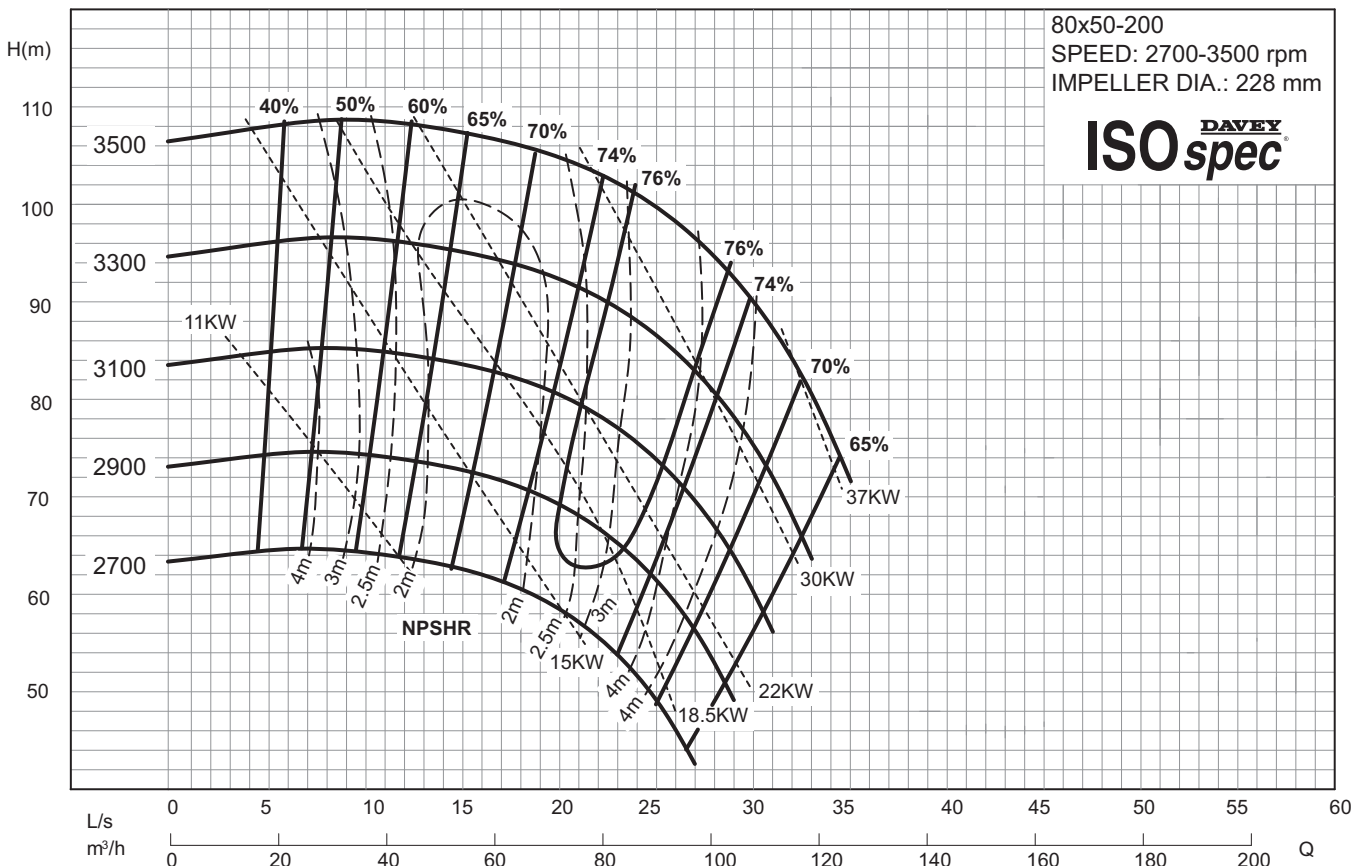
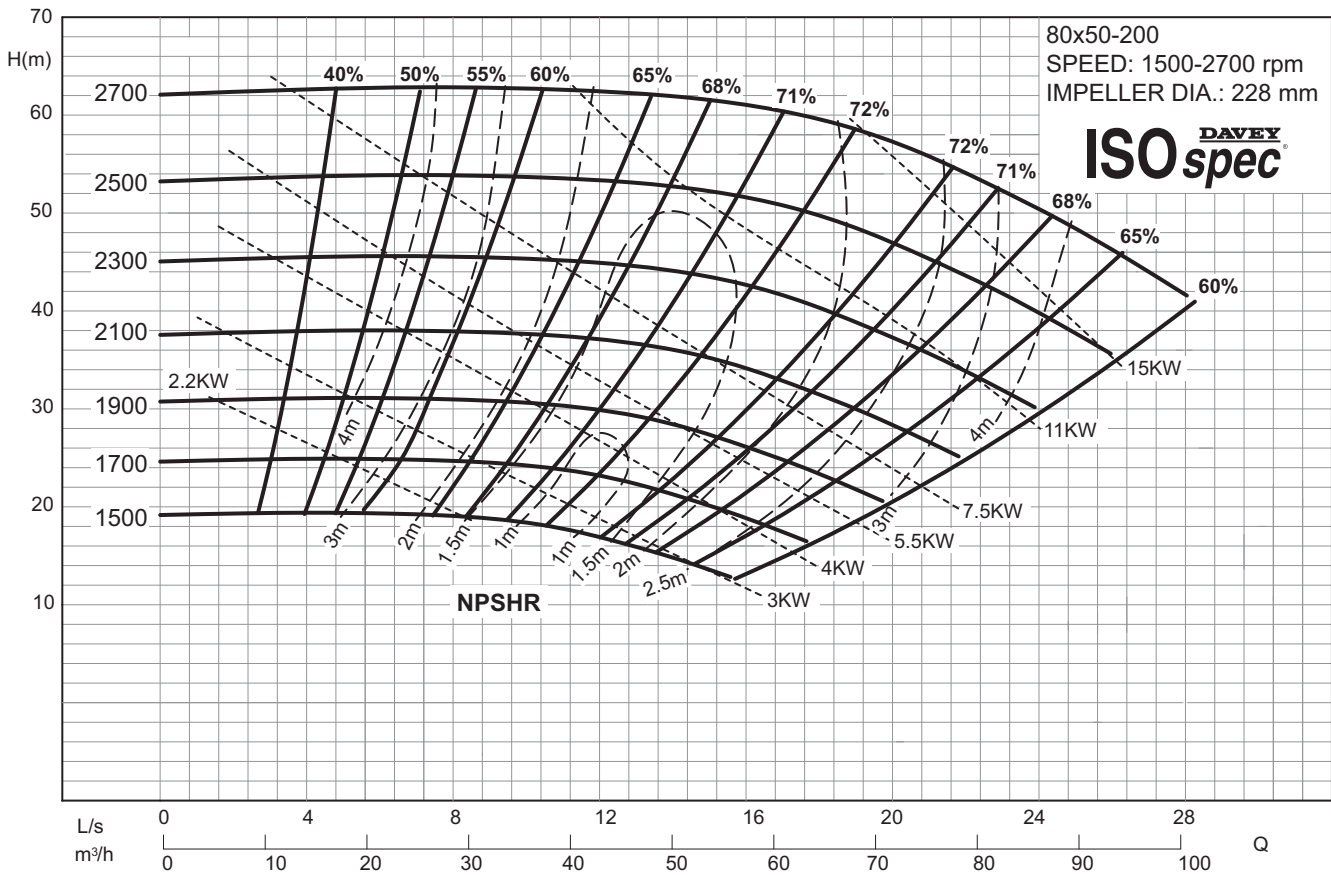
## CF Series Variable Speed Performance Curve 65x50-160



# TECHNICAL SPECIFICATIONS



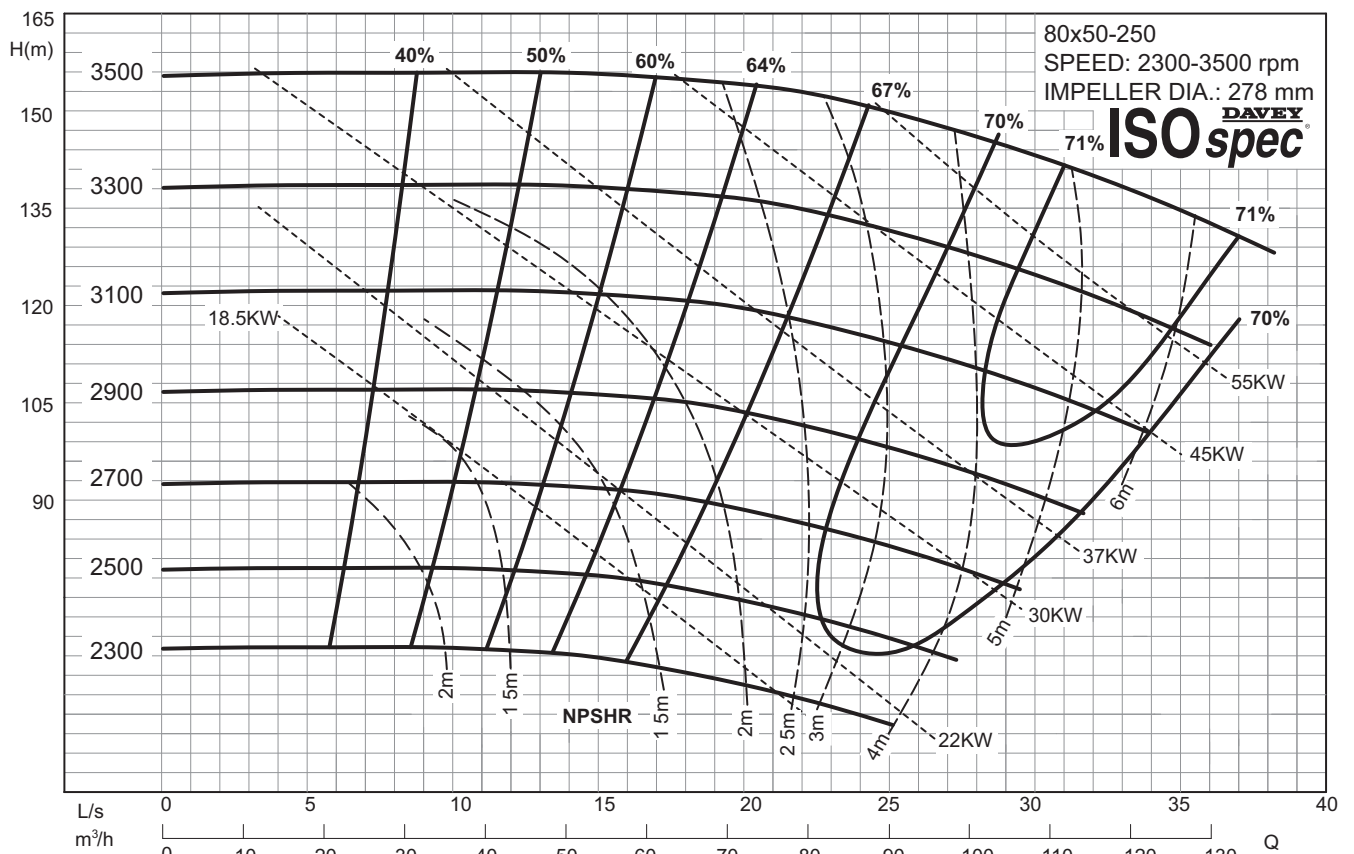
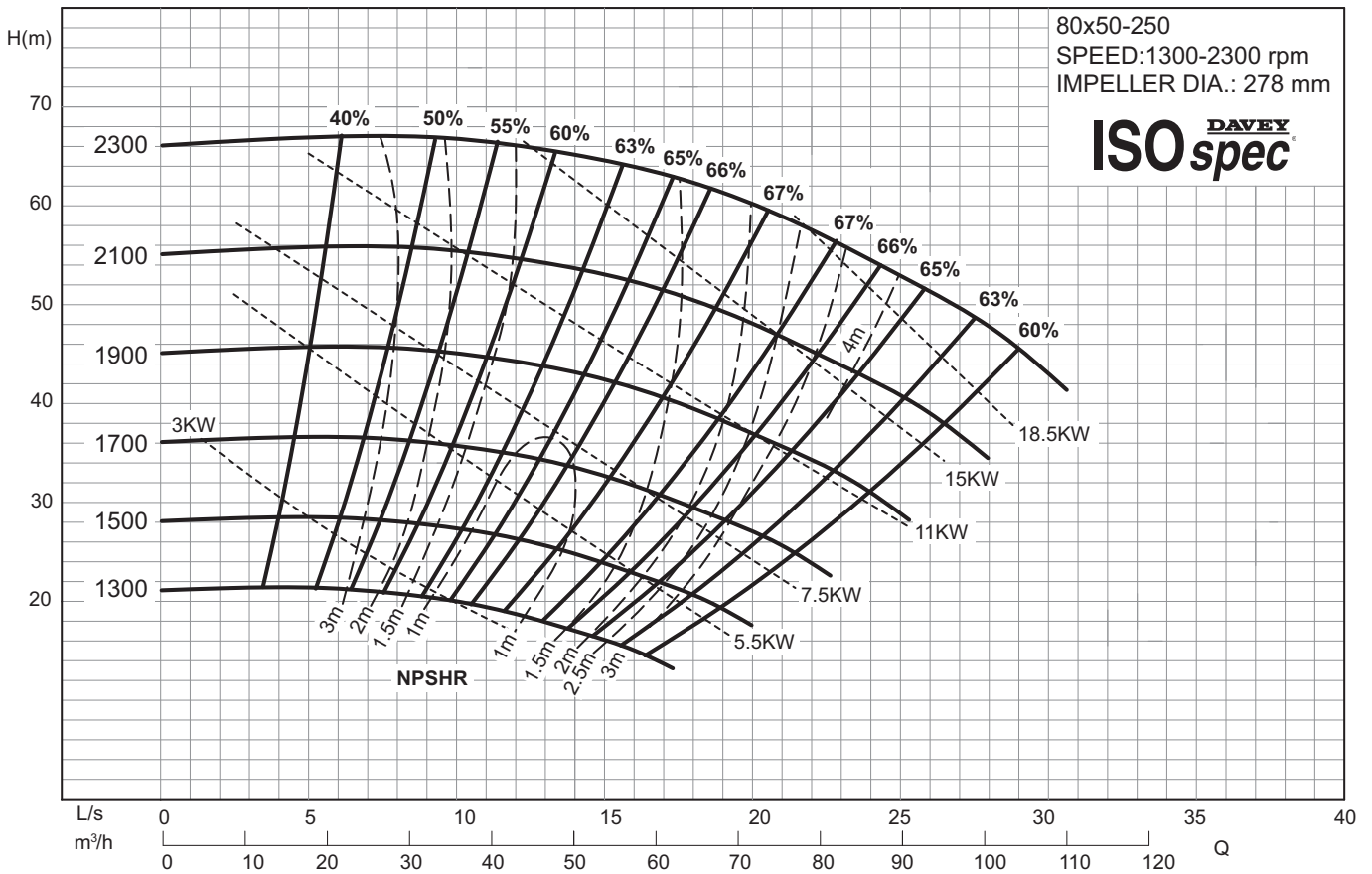
## CF Series Variable Speed Performance Curve 80x50-200



# TECHNICAL SPECIFICATIONS

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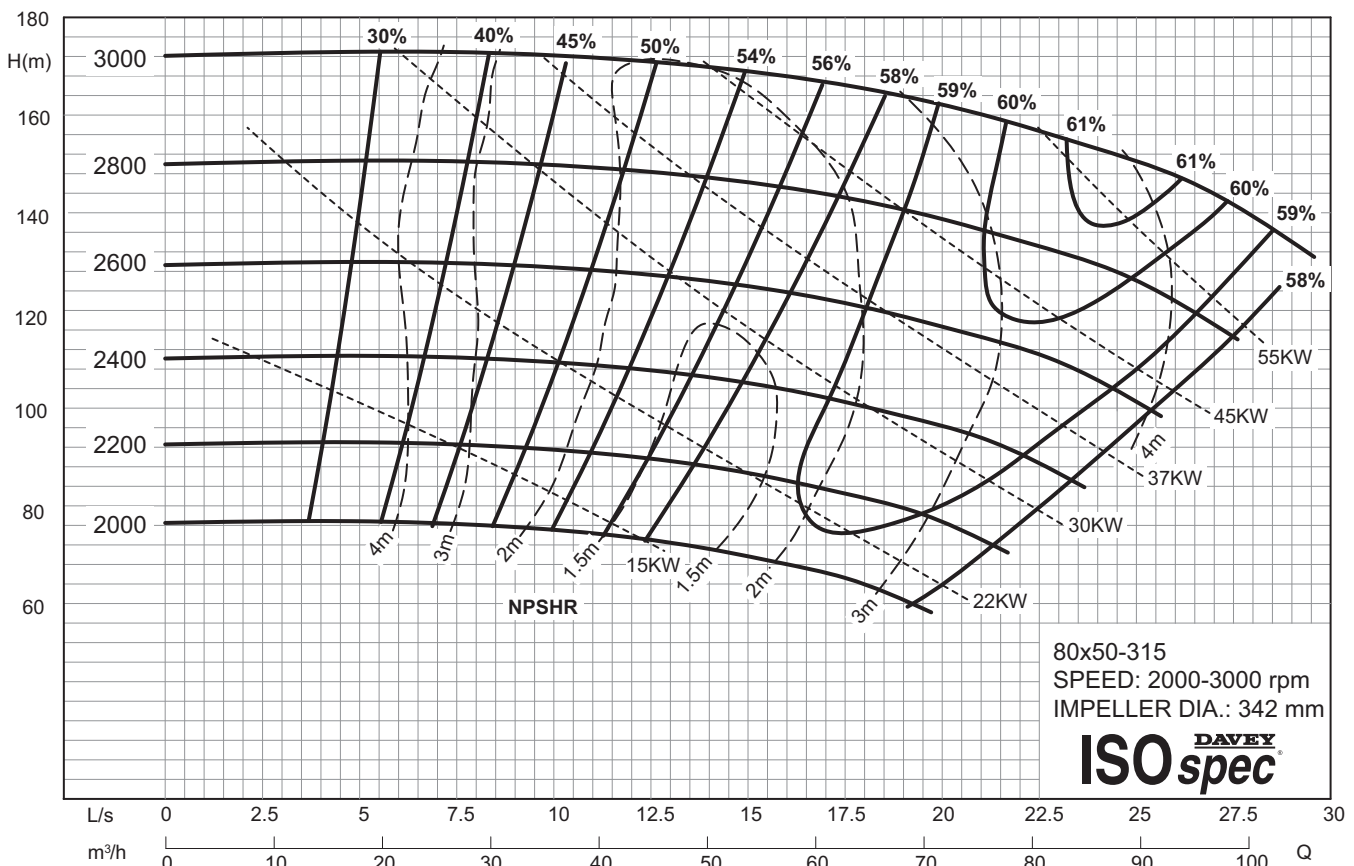
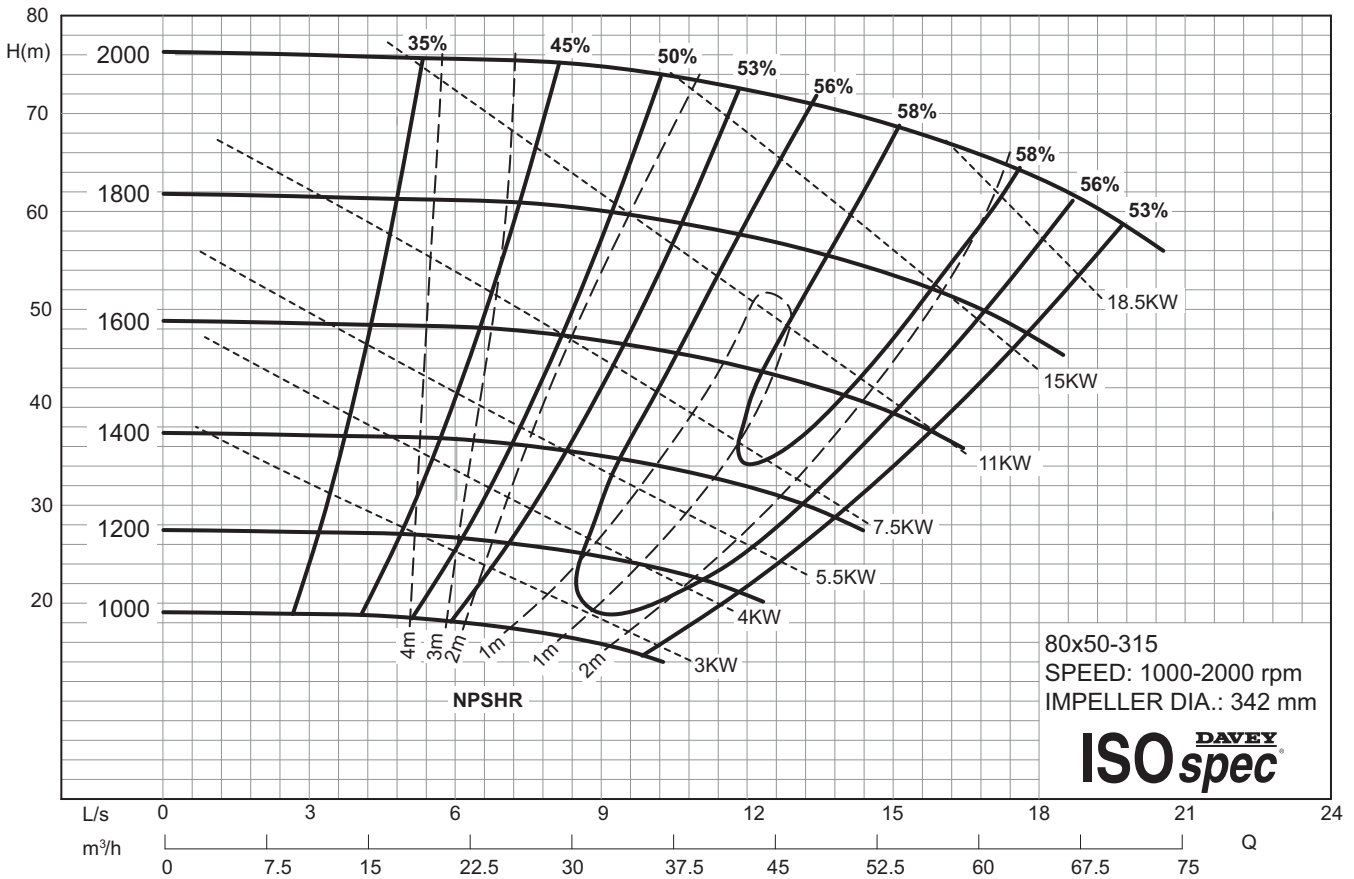
## CF Series Variable Speed Performance Curve 80x50-250



# TECHNICAL SPECIFICATIONS



## CF Series Variable Speed Performance Curve 80x50-315

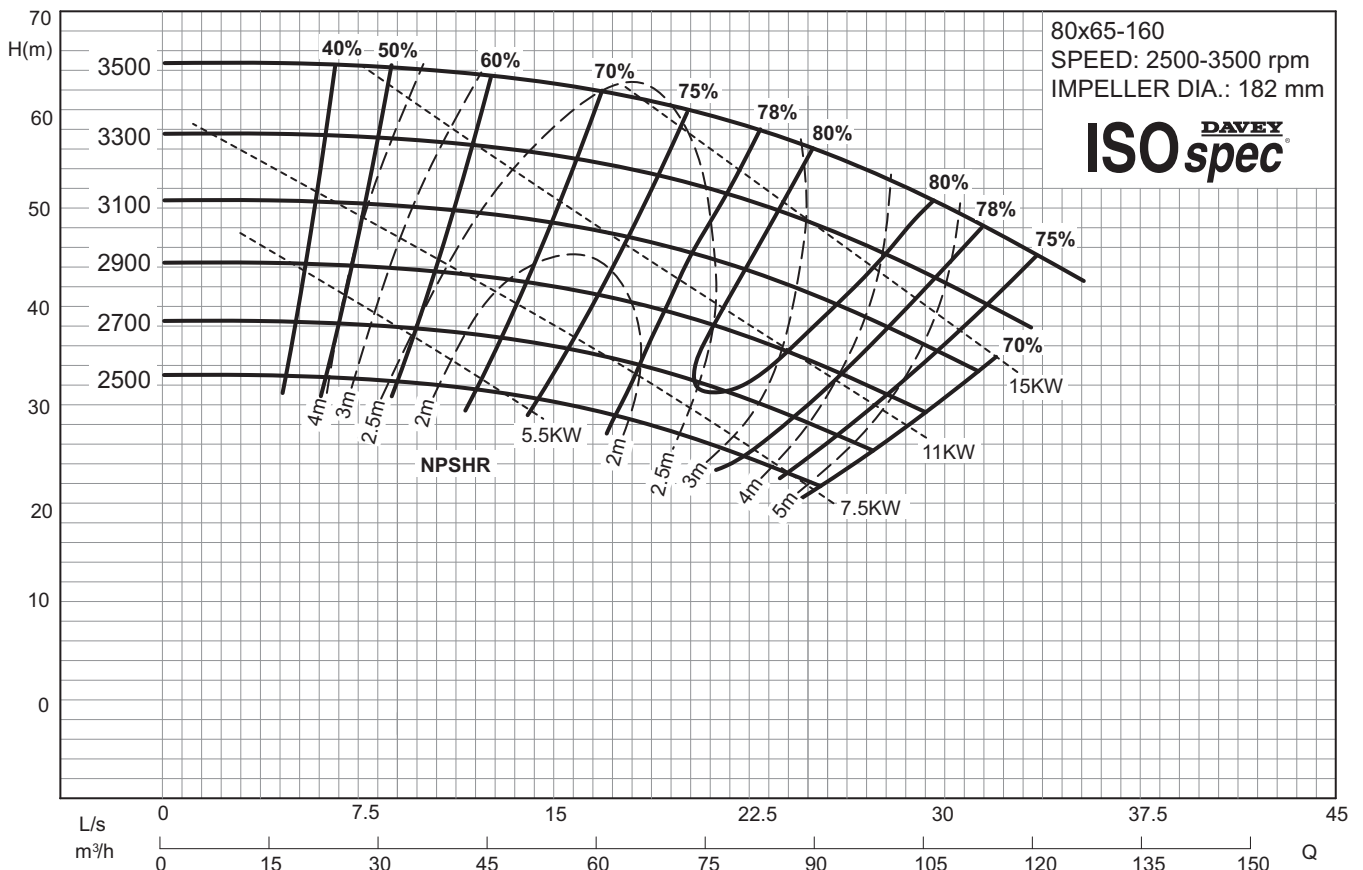
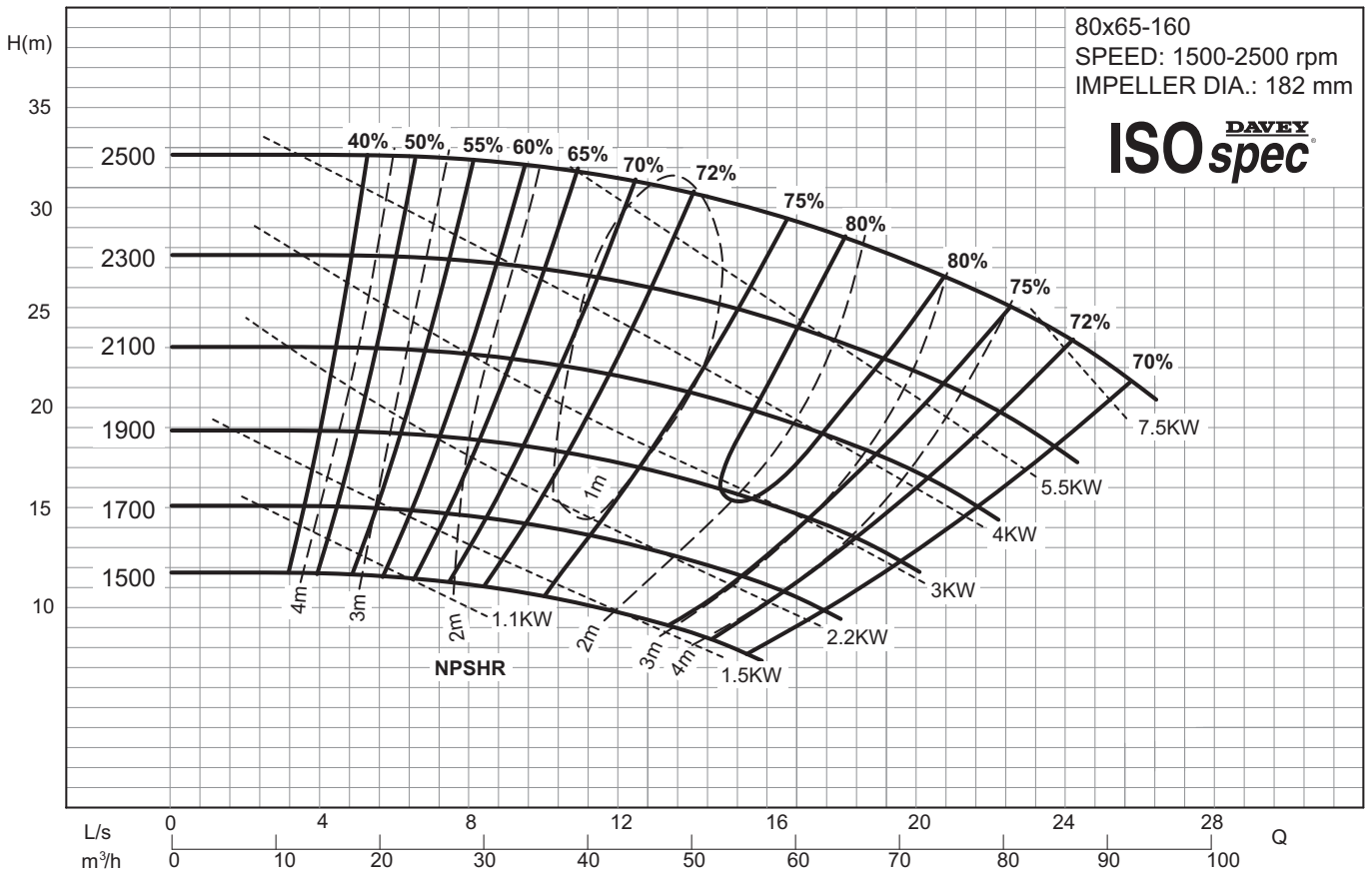




# TECHNICAL SPECIFICATIONS



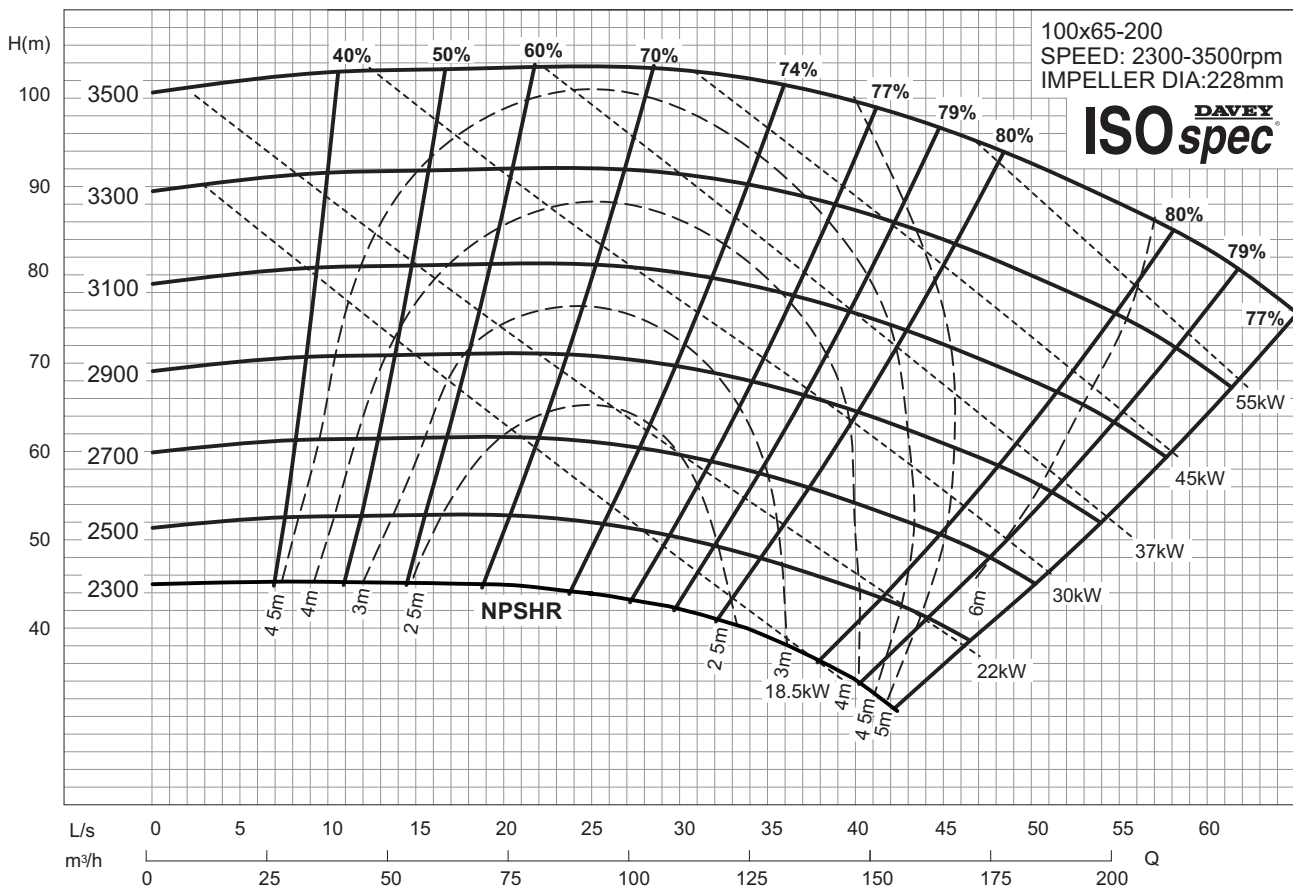
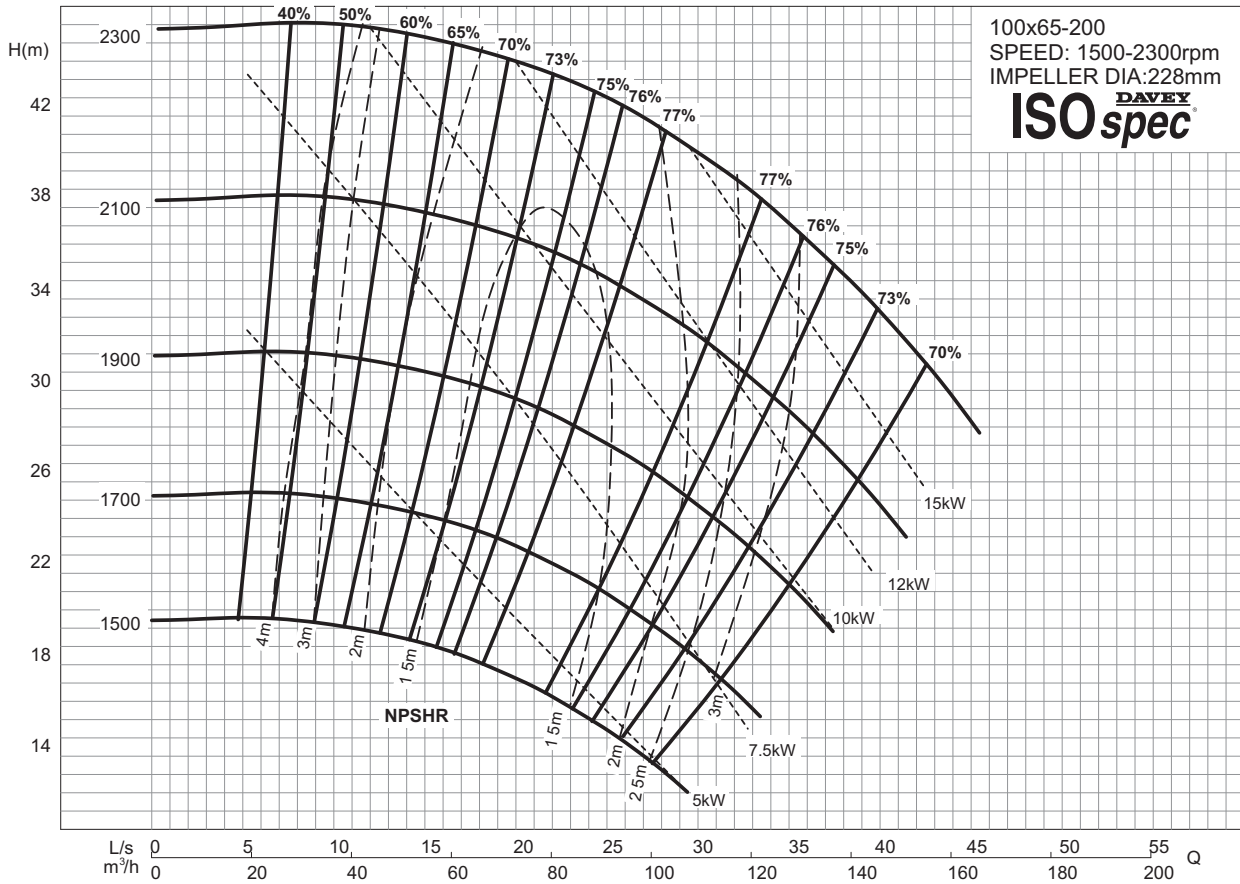
## CF Series Variable Speed Performance Curve 80x65-160



# TECHNICAL SPECIFICATIONS



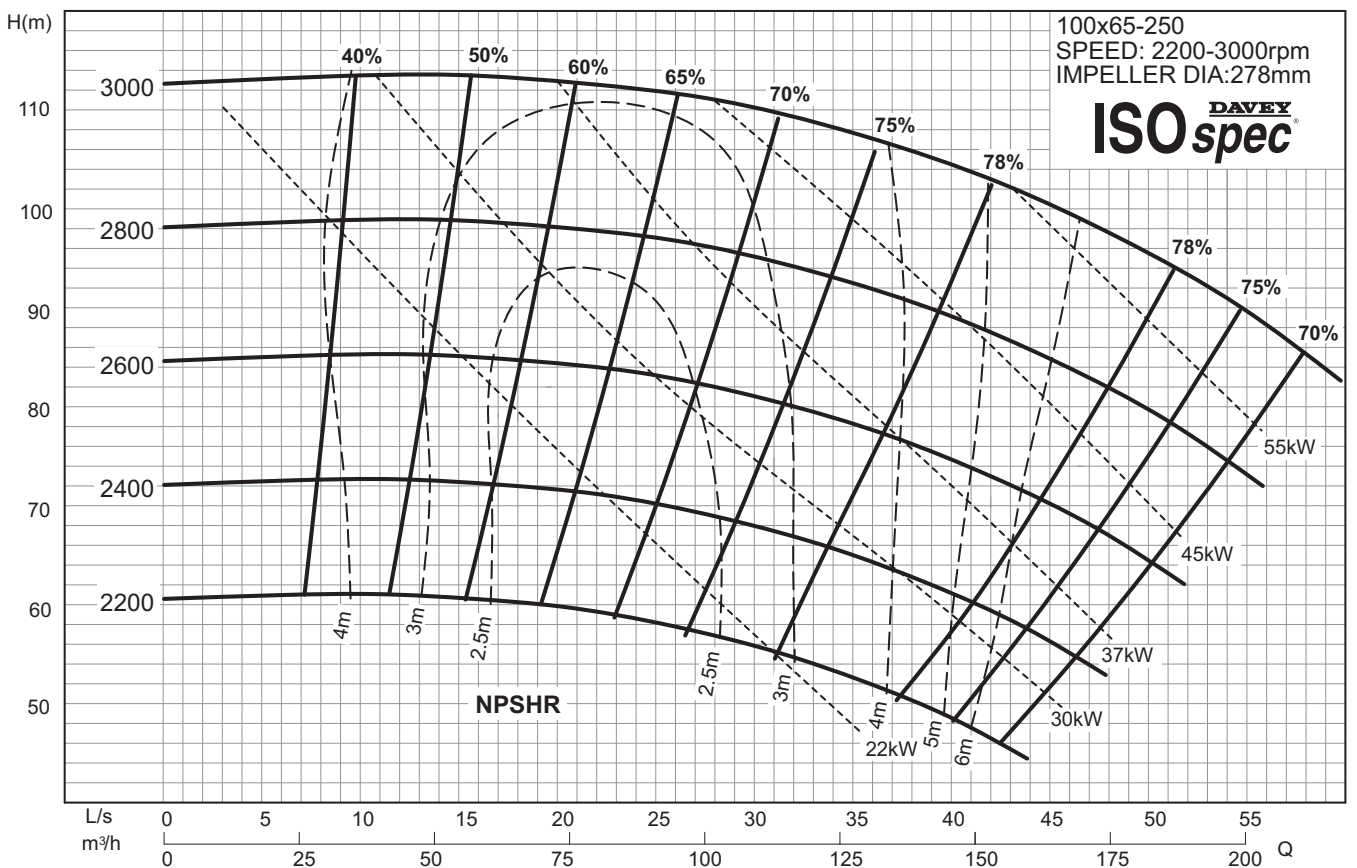
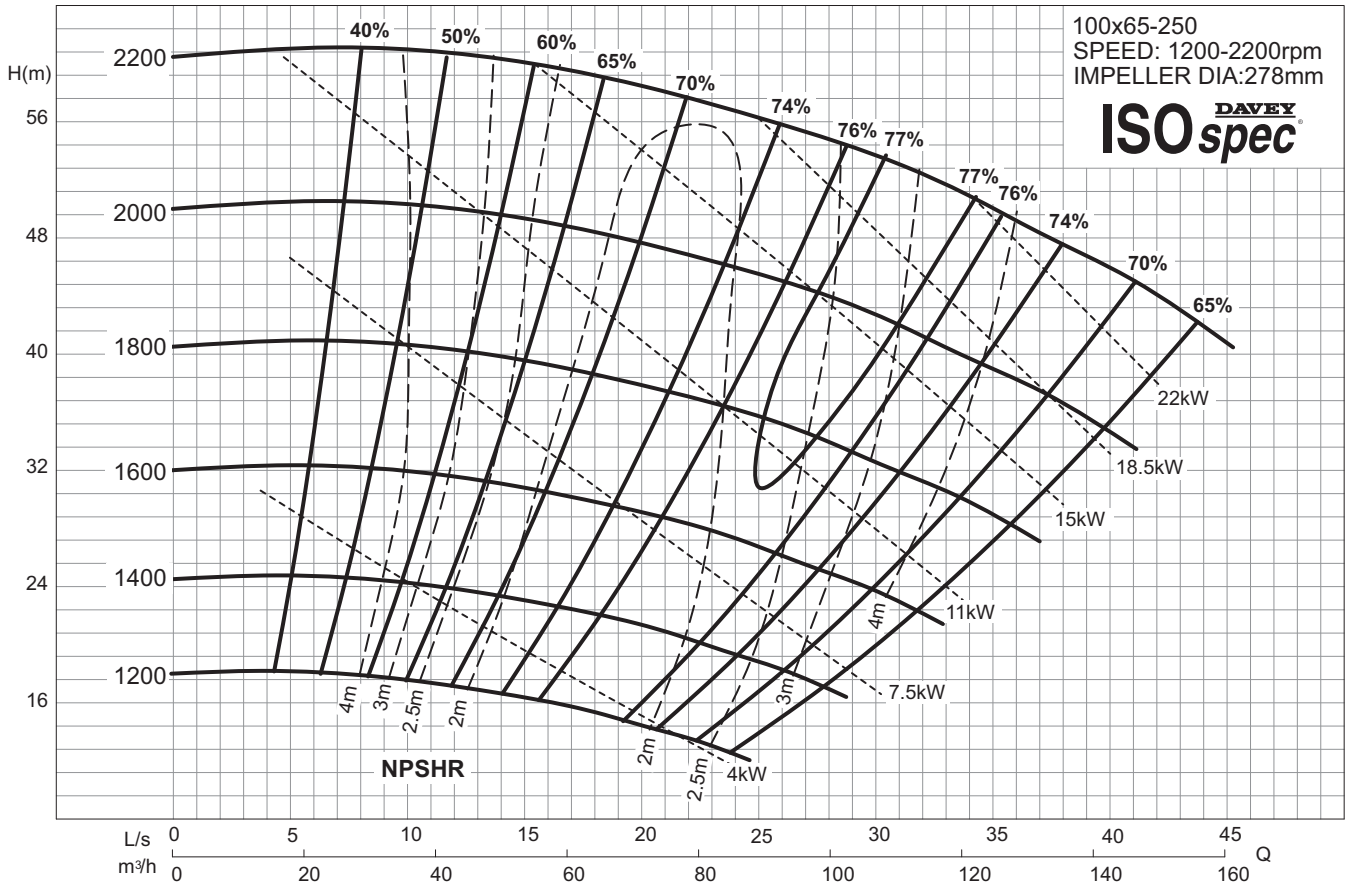
## CF Series Variable Speed Performance Curve 100x65-200



# TECHNICAL SPECIFICATIONS



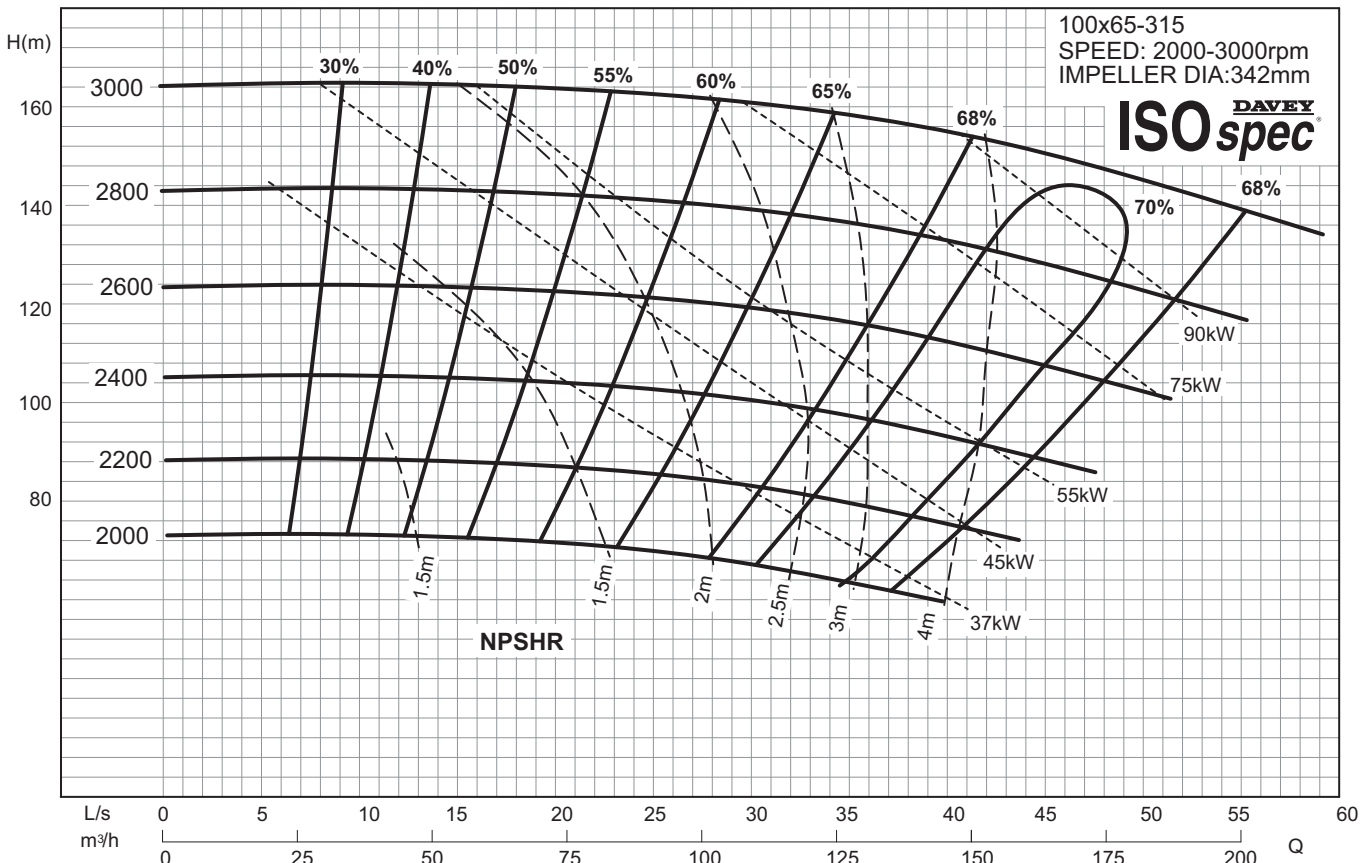
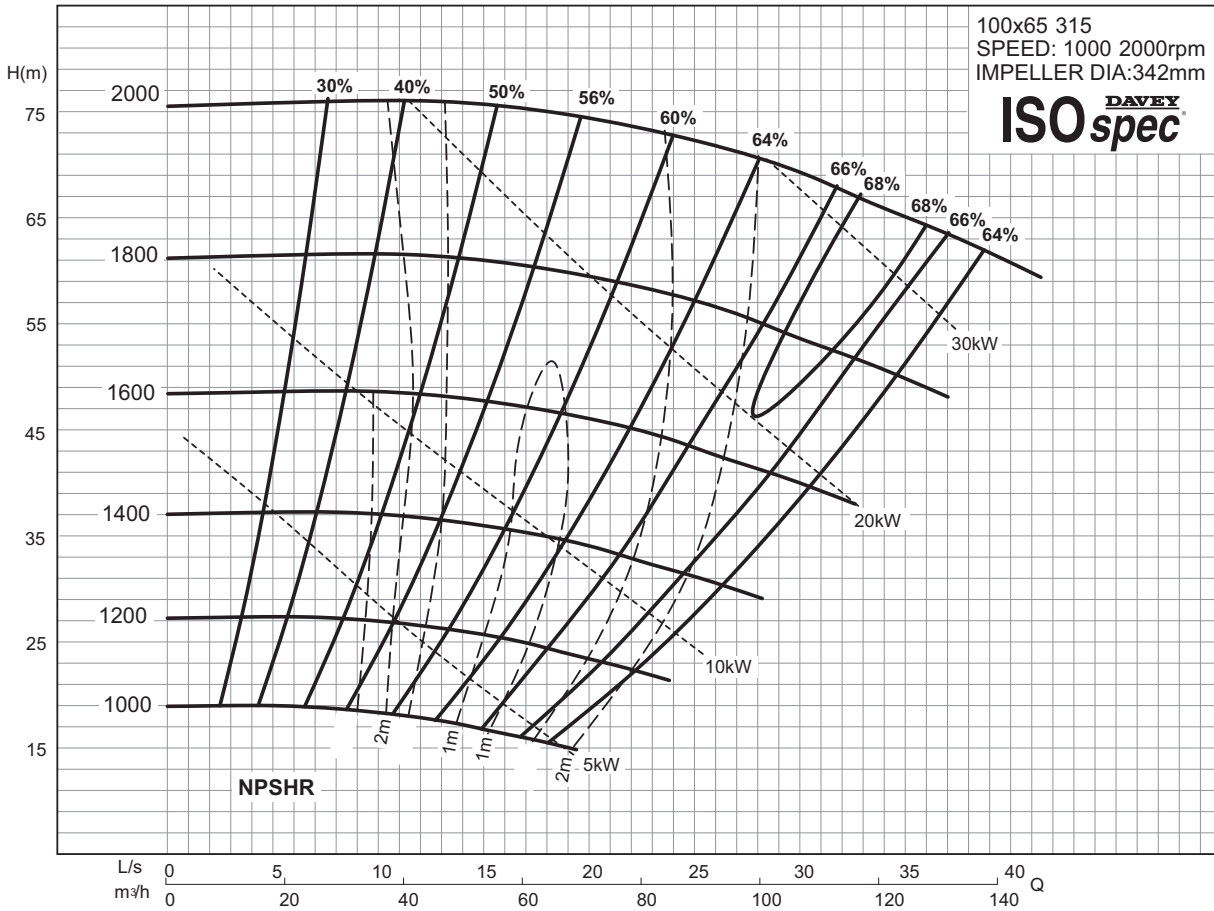
## CF Series Variable Speed Performance Curve 100x65-250



# TECHNICAL SPECIFICATIONS



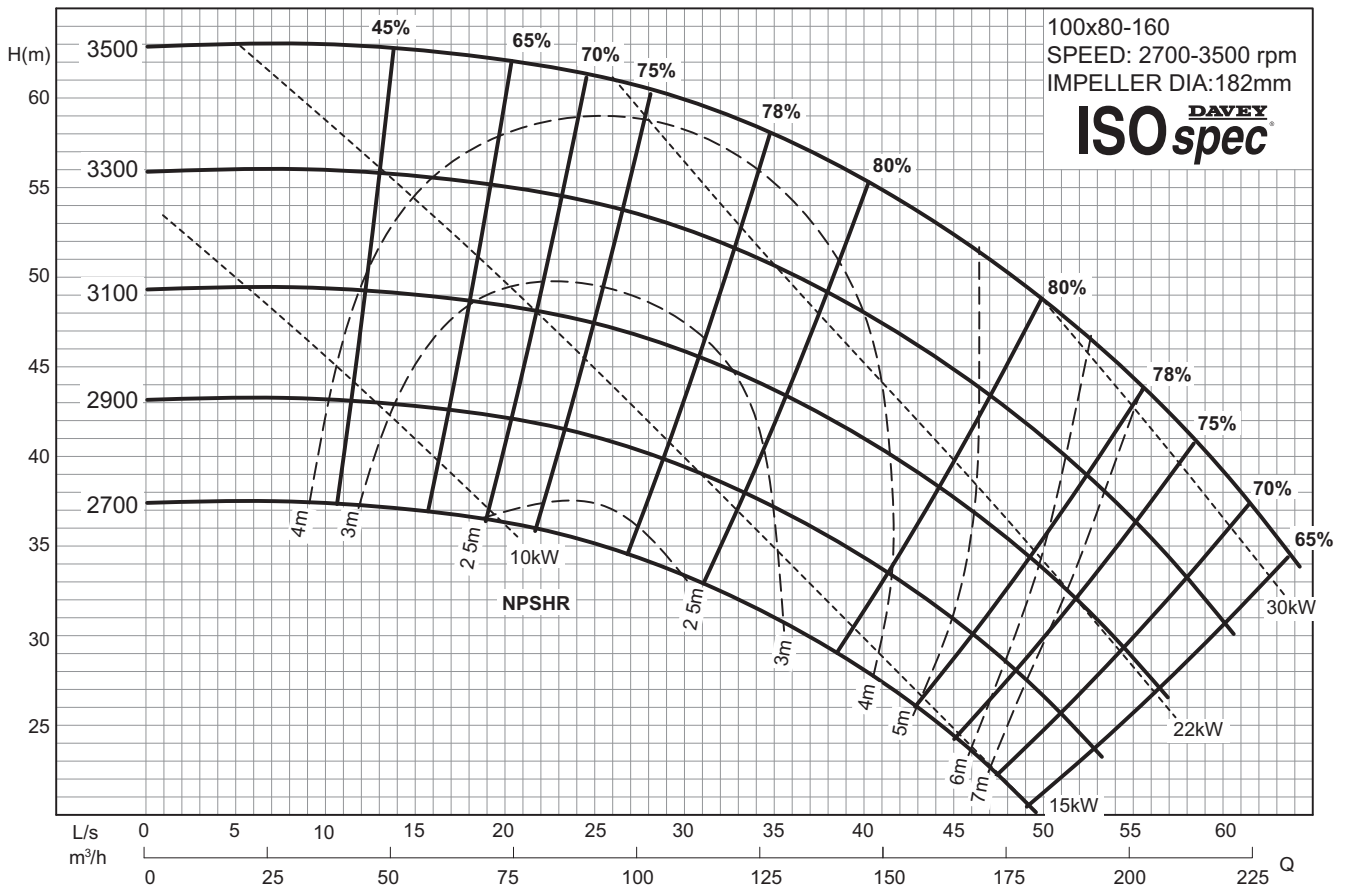
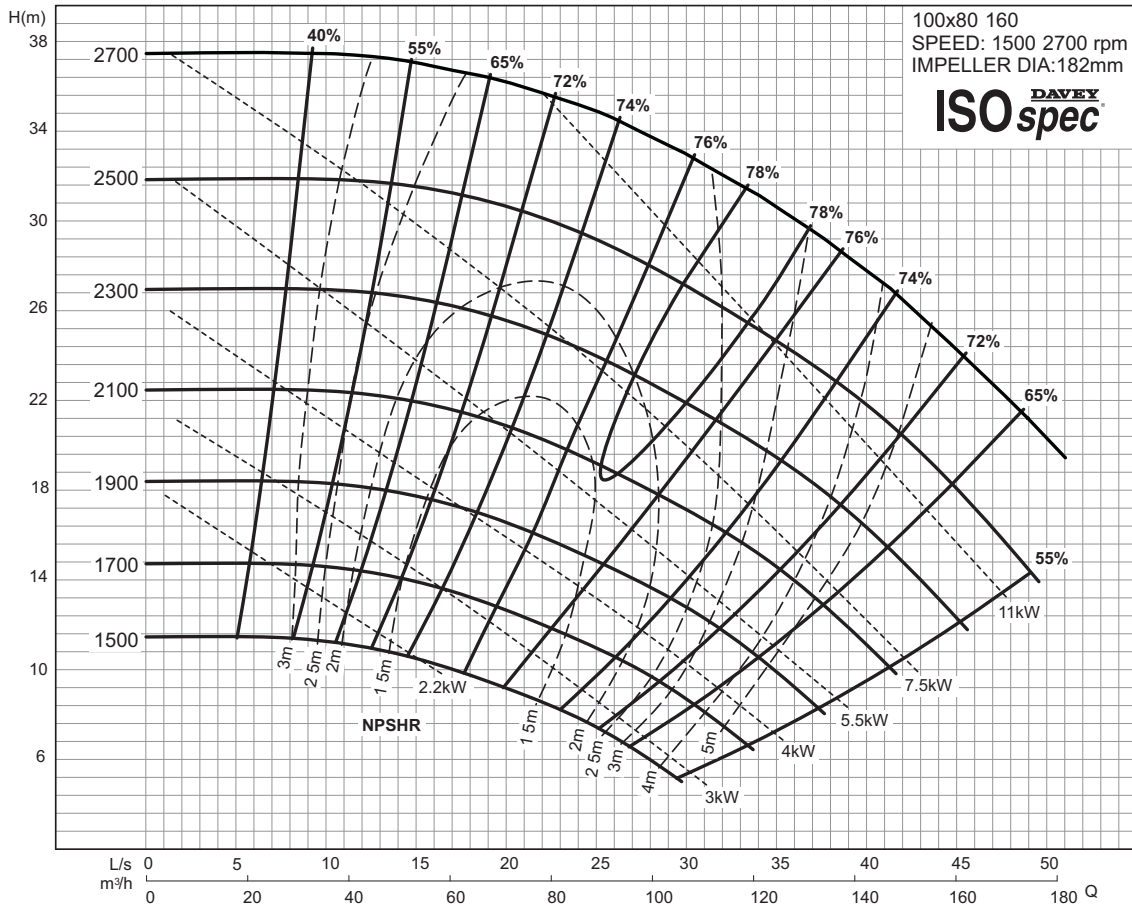
## CF Series Variable Speed Performance Curve 100x65-315



# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

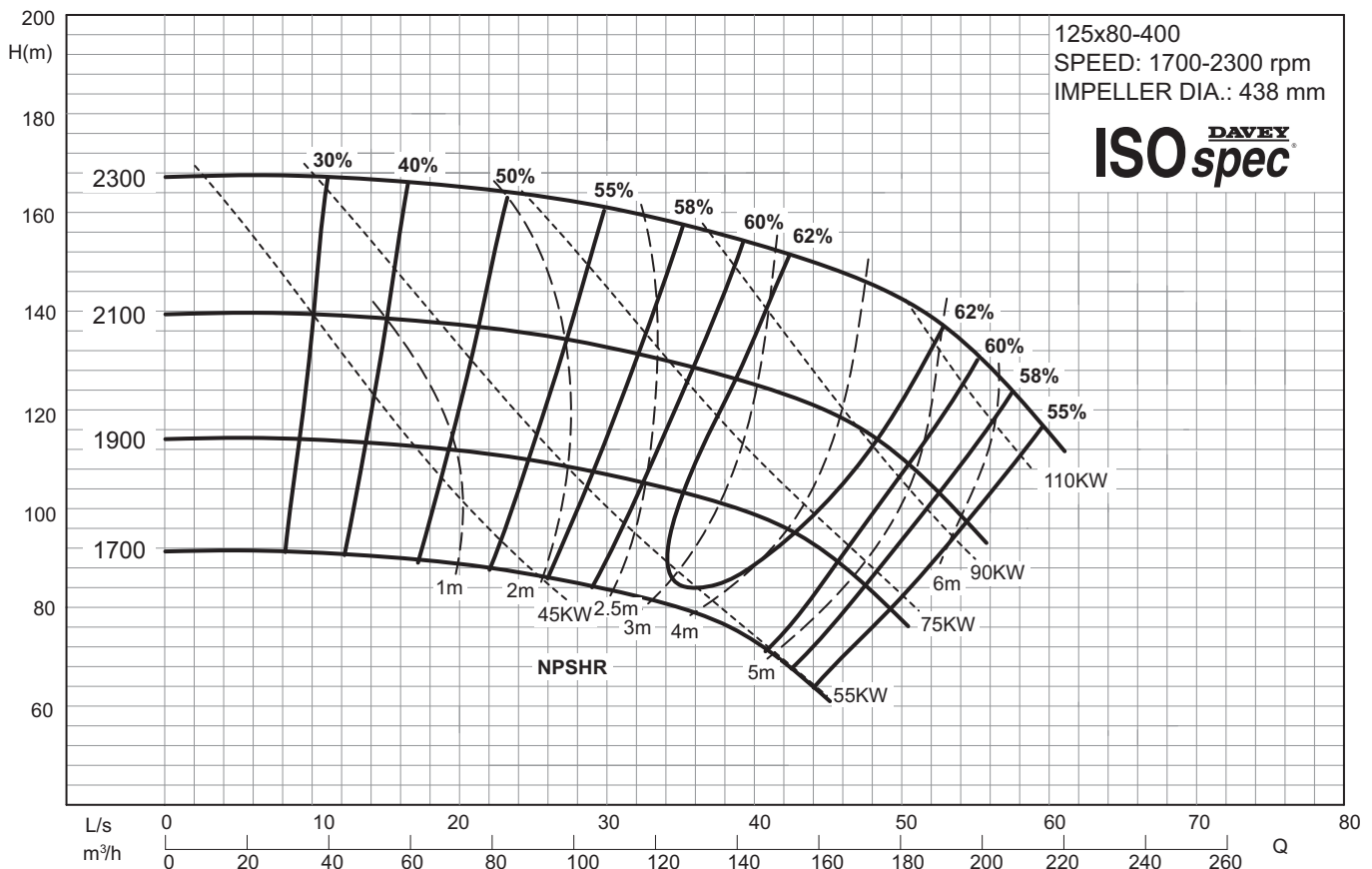
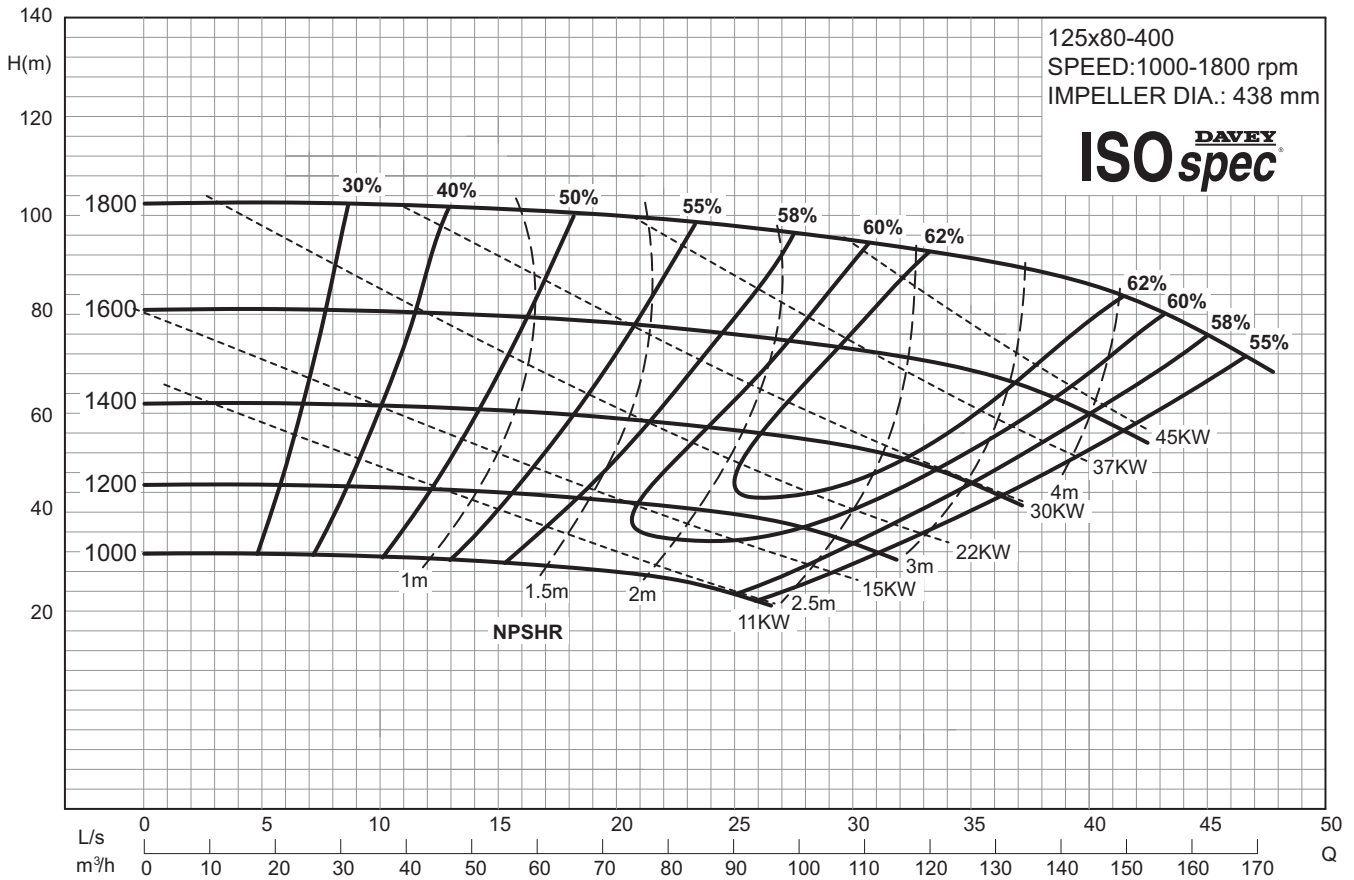
## CF Series Variable Speed Performance Curve 100x80-160



# TECHNICAL SPECIFICATIONS

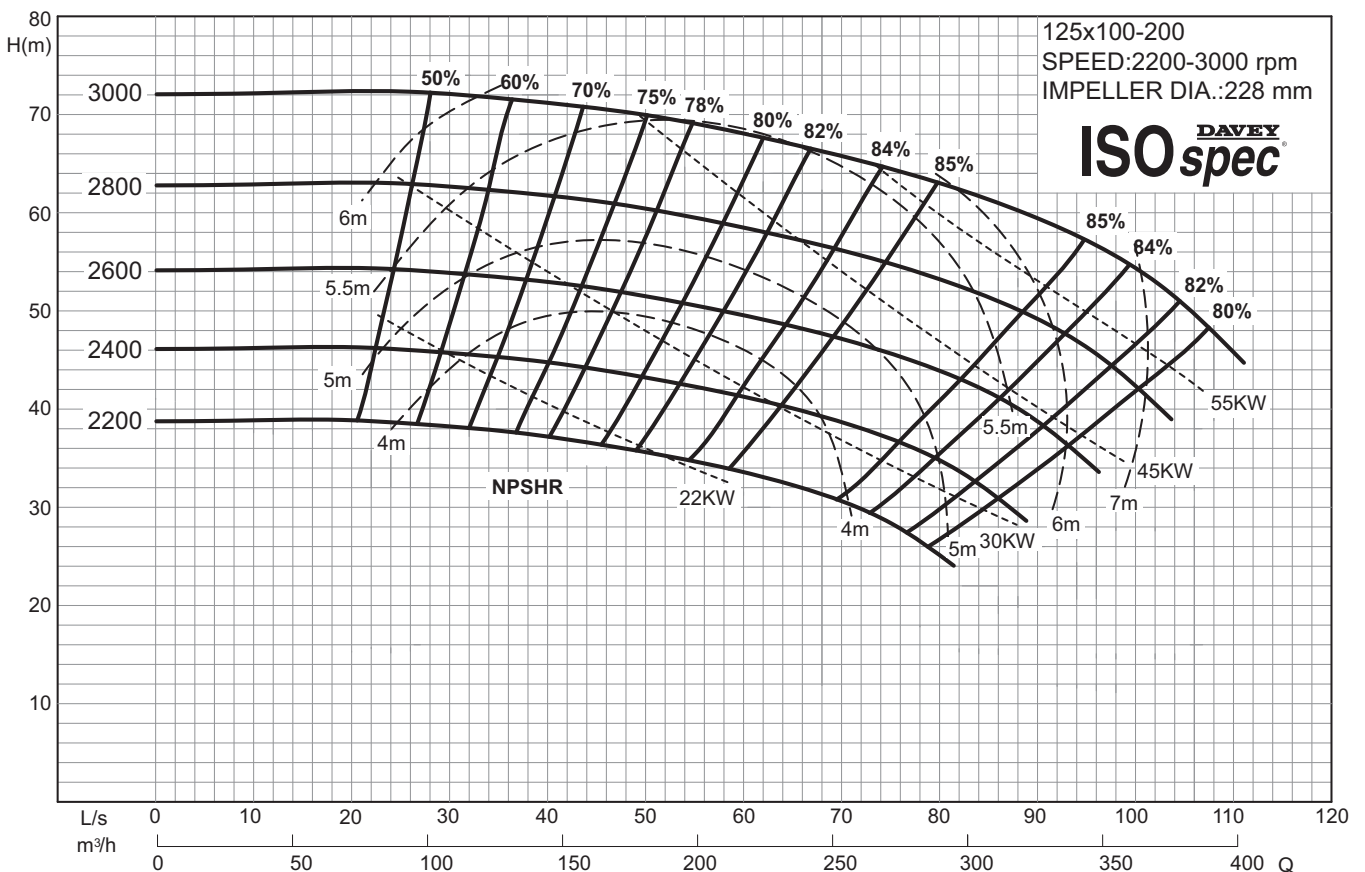
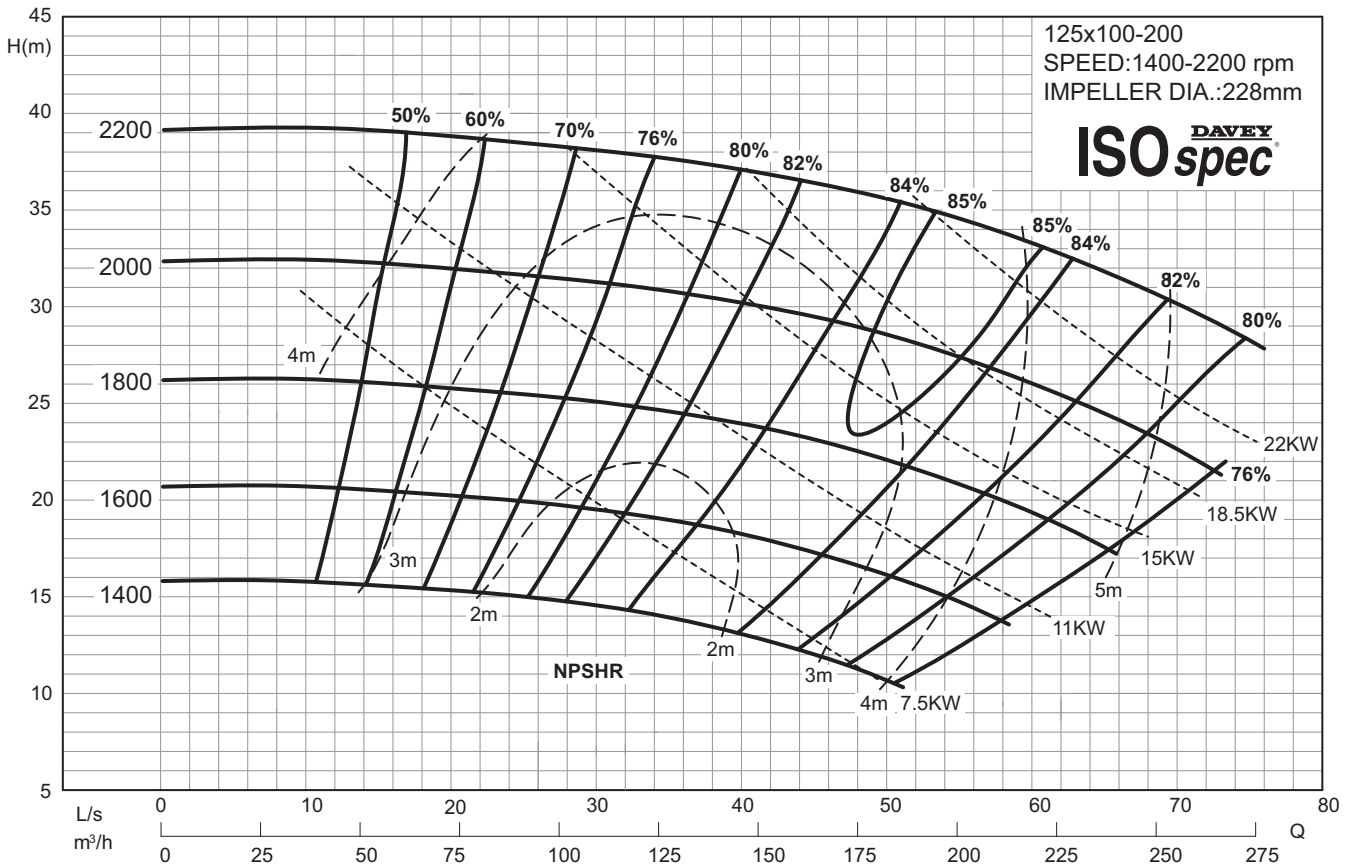


## CF Series Variable Speed Performance Curve 125x80-400



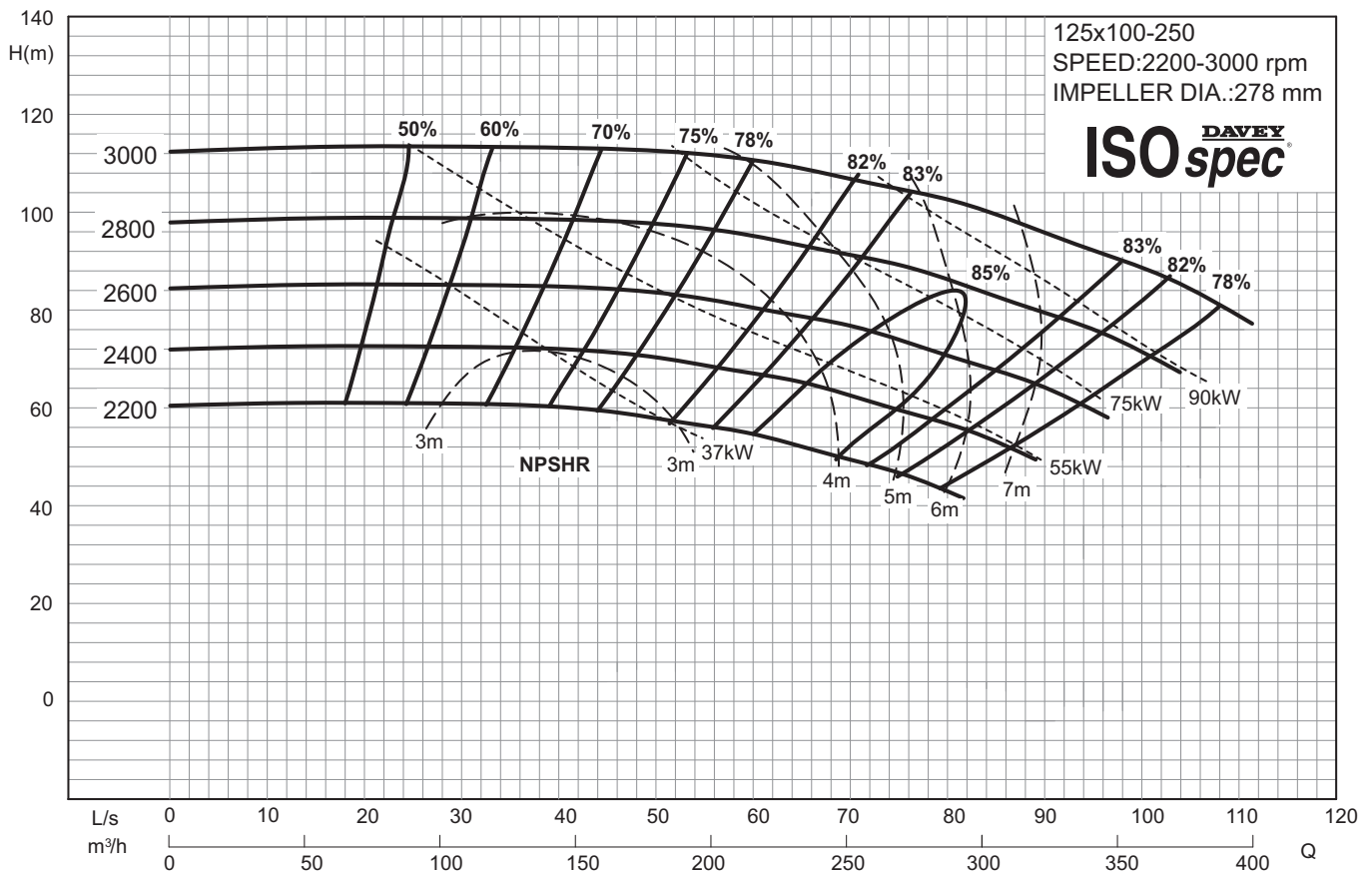
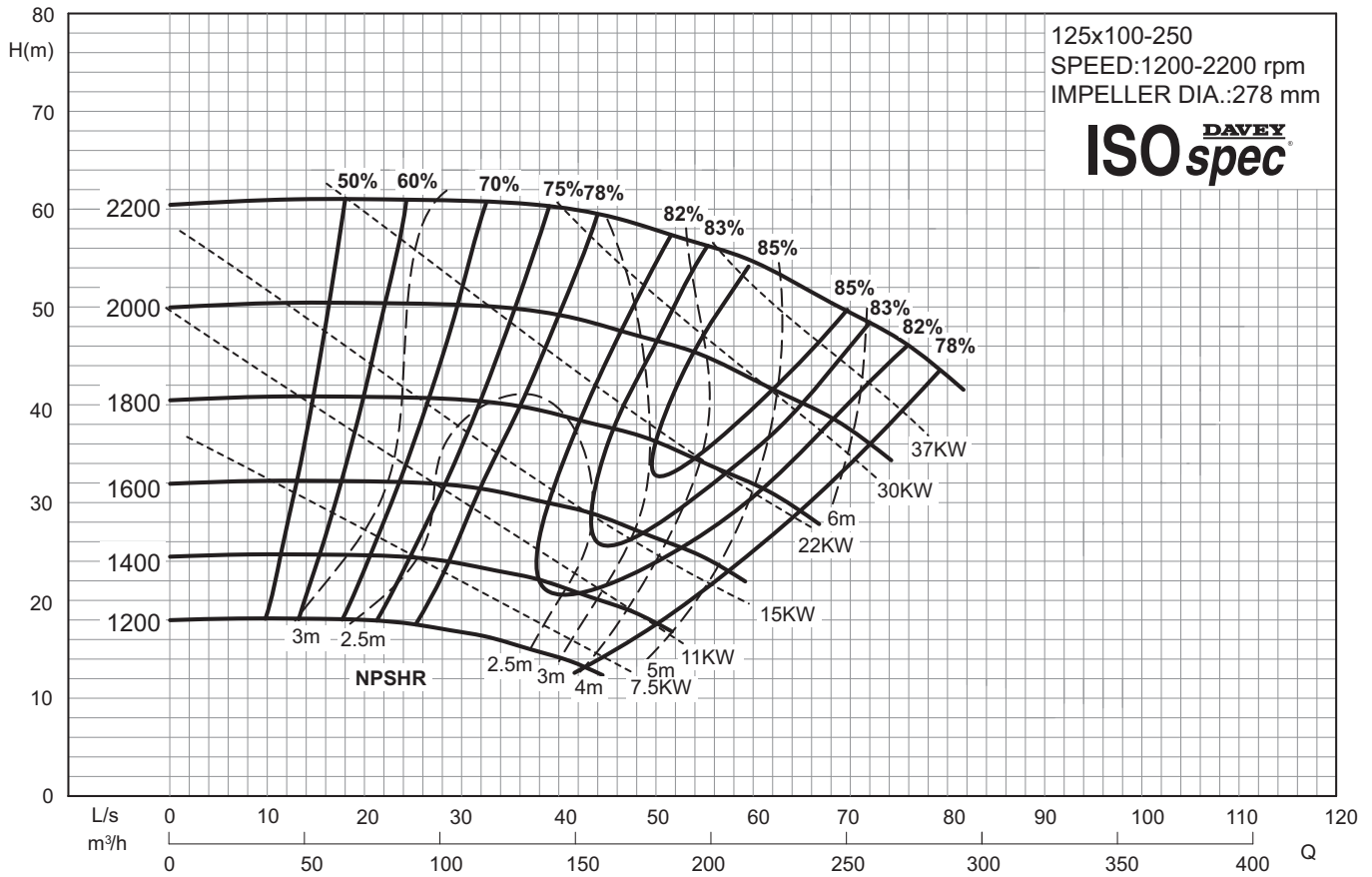
# TECHNICAL SPECIFICATIONS

## ISO spec <sup>DAVEY</sup> CF Series Variable Speed Performance Curve 125x100-200



# TECHNICAL SPECIFICATIONS

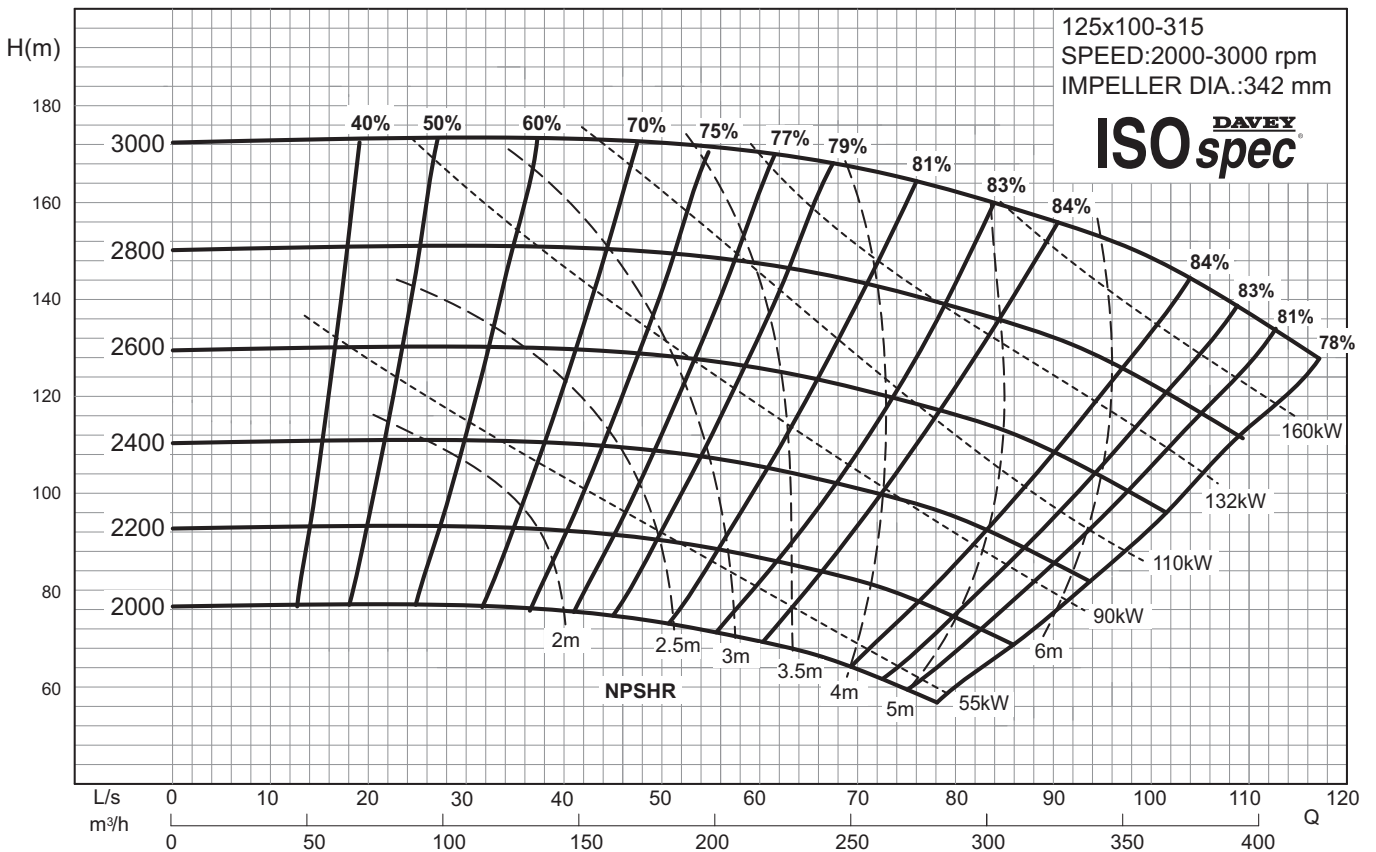
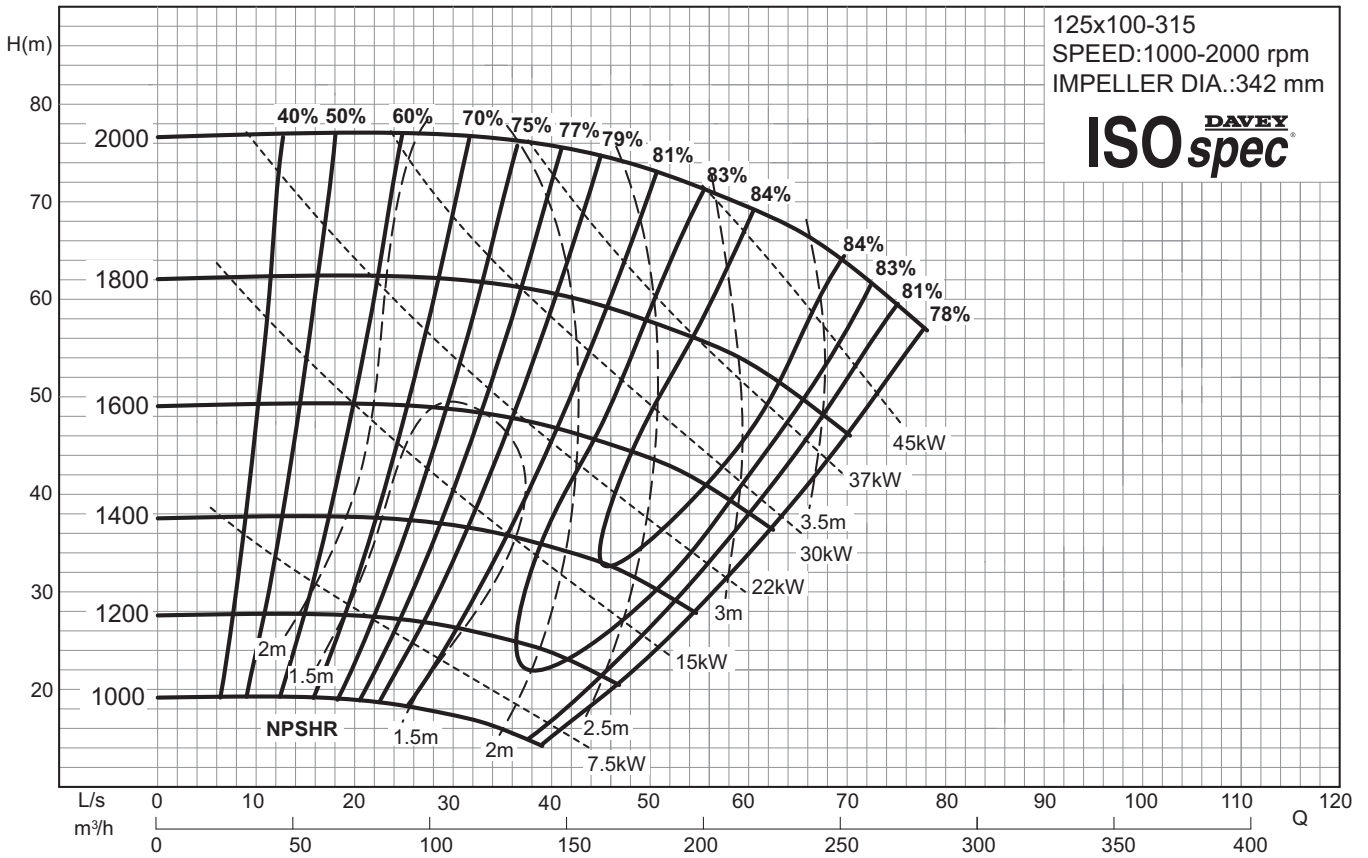
## ISOspec<sup>®</sup> **DAVEY** CF Series Variable Speed Performance Curve 125x100-250





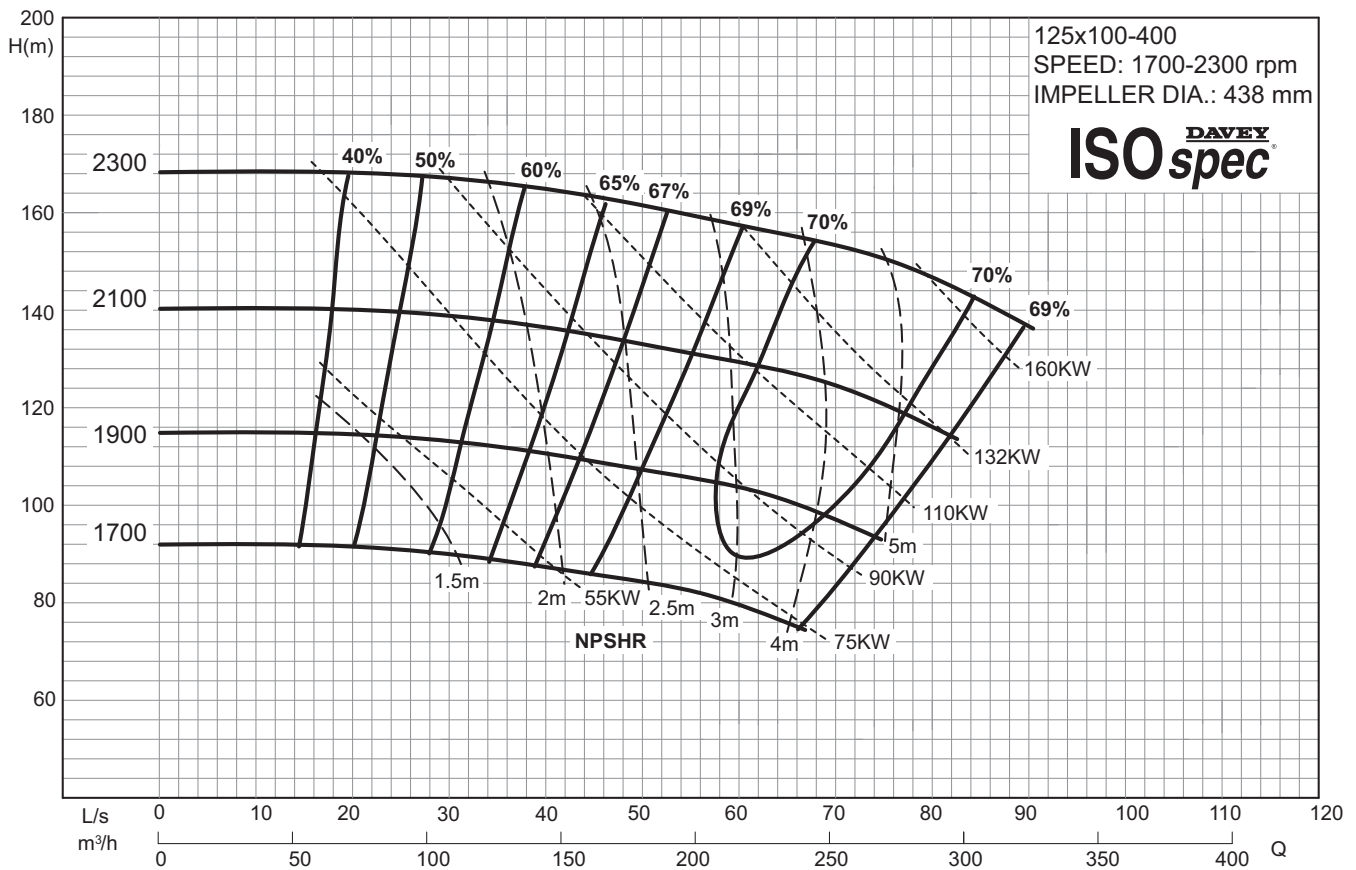
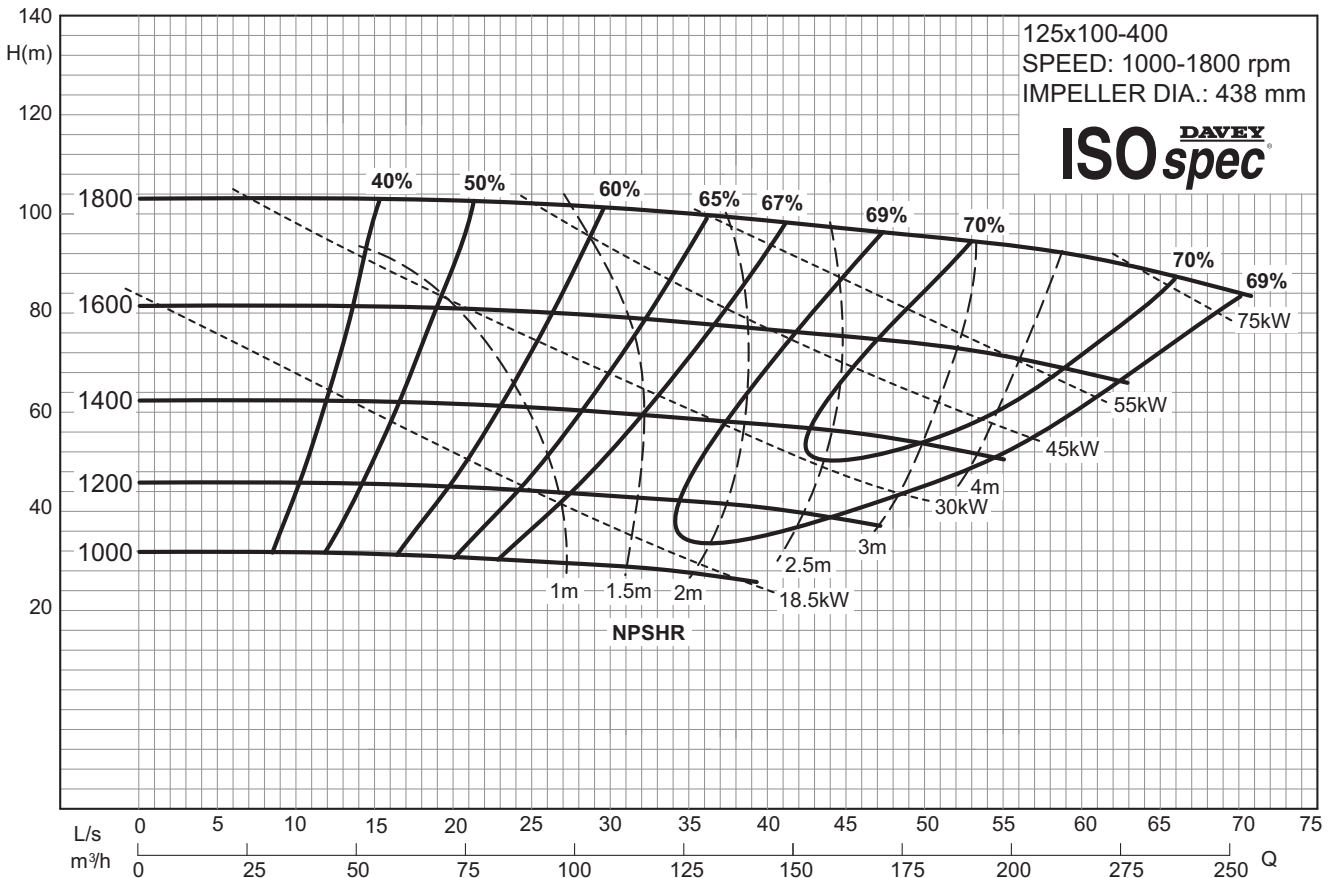
# TECHNICAL SPECIFICATIONS

## ISO <sup>DAVEY</sup>spec® *CF Series Variable Speed Performance Curve 125x100-315*



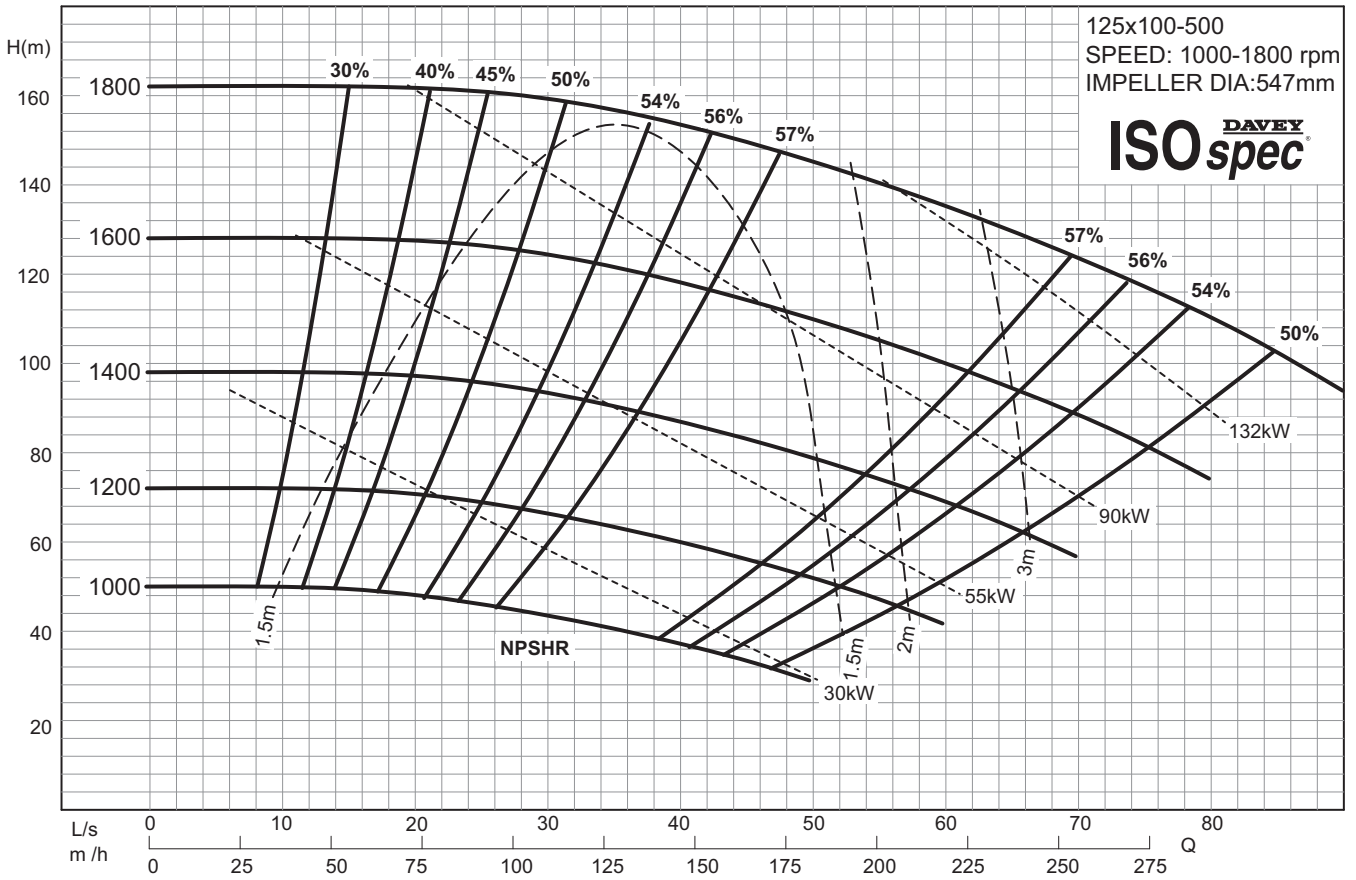
# TECHNICAL SPECIFICATIONS

## ISOspec<sup>®</sup> **DAVEY** CF Series Variable Speed Performance Curve 125x100-400



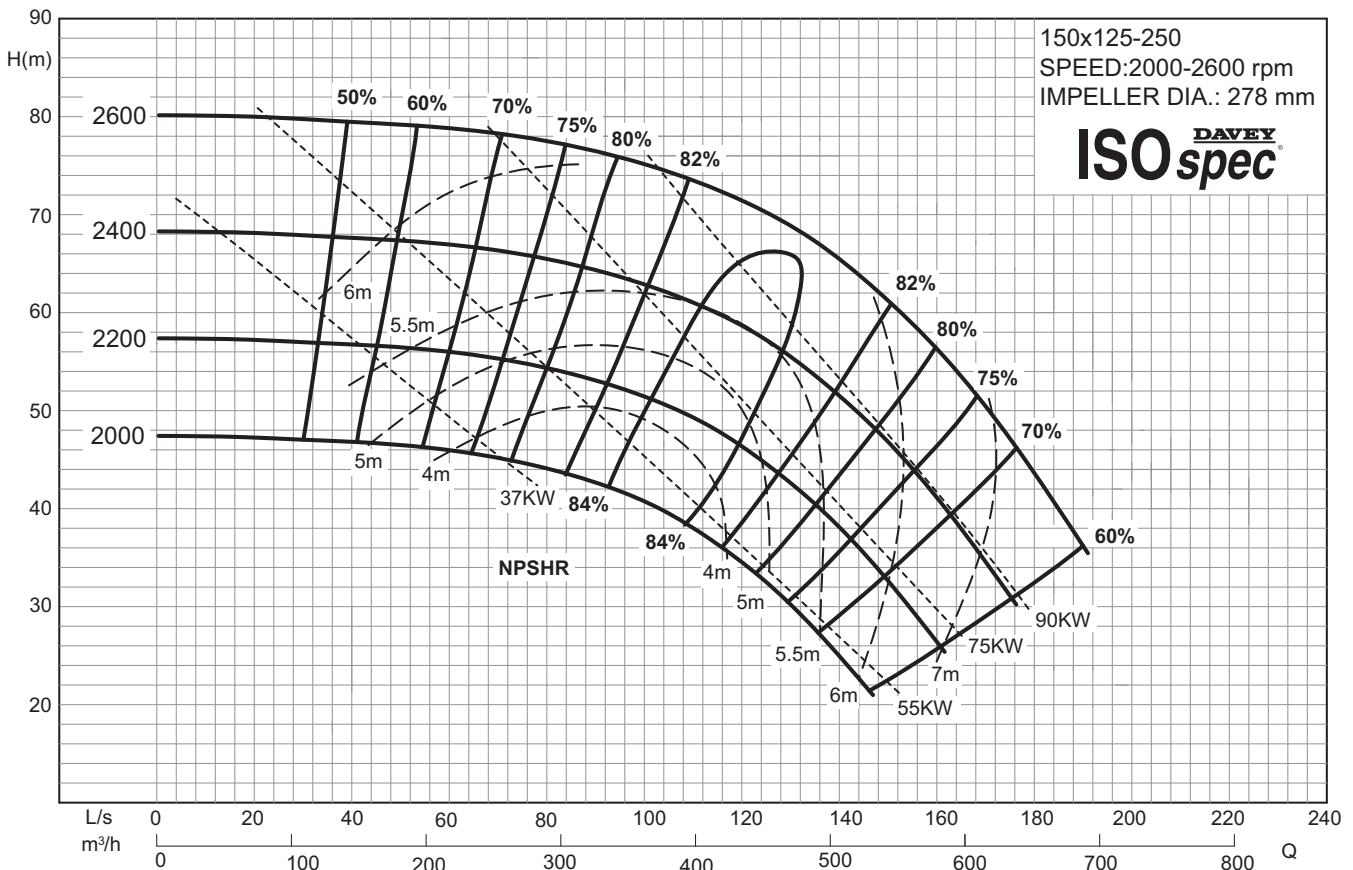
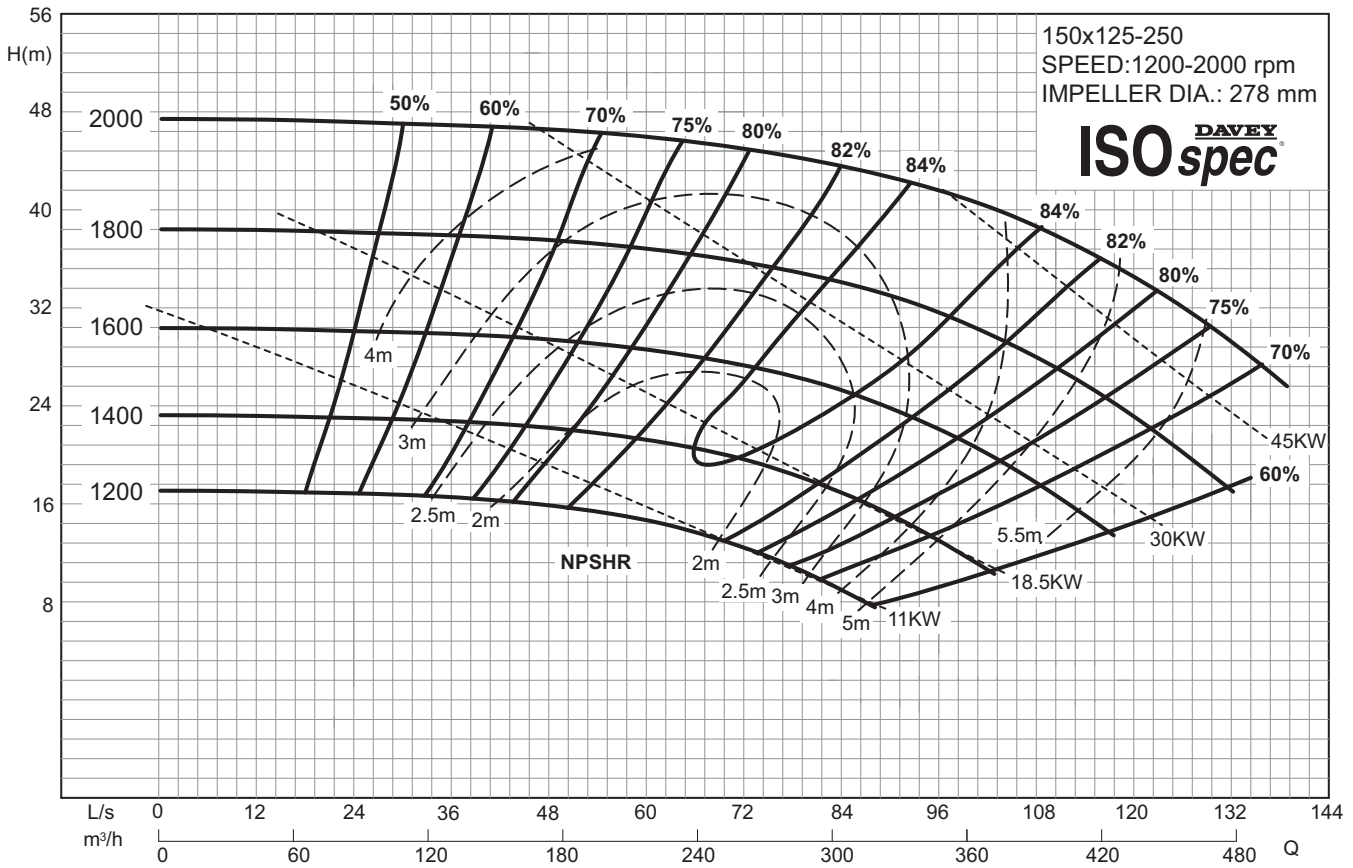
# TECHNICAL SPECIFICATIONS

## ISO spec <sup>DAVEY</sup> CF Series Variable Speed Performance Curve 125x100-500



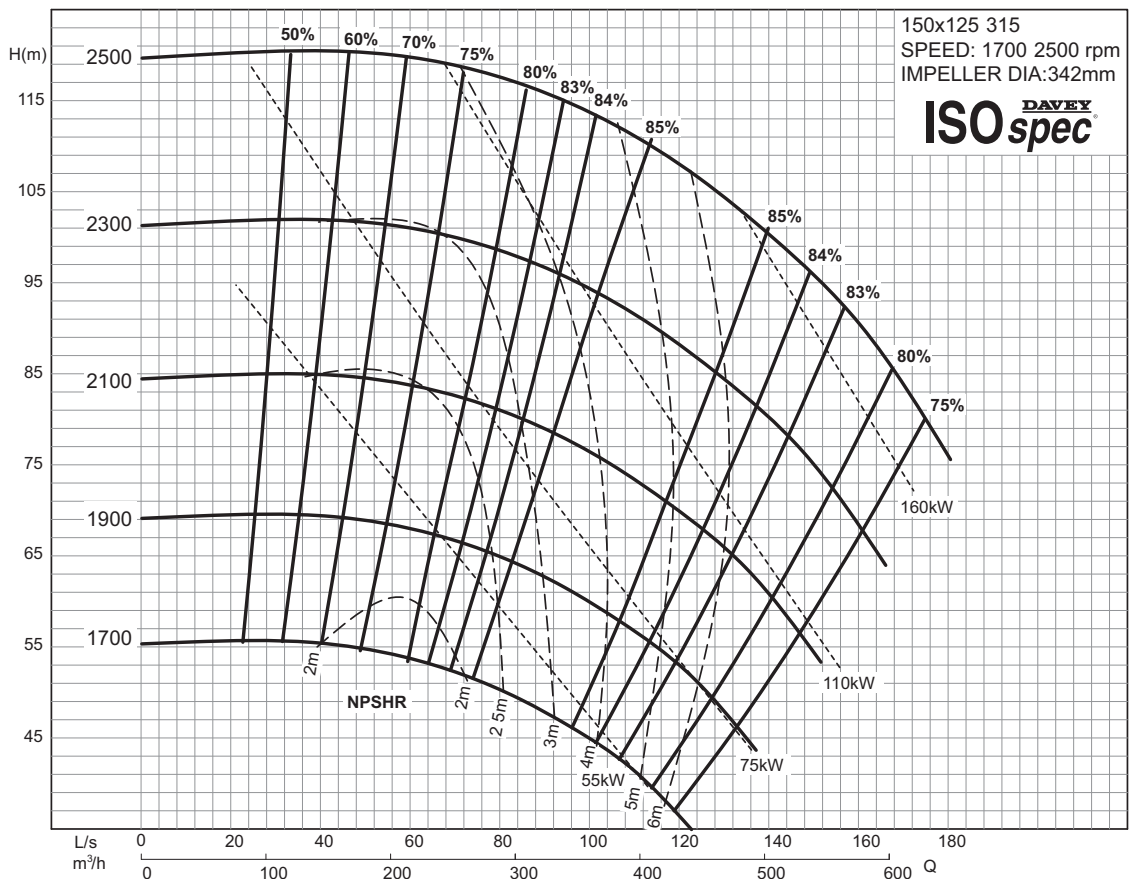
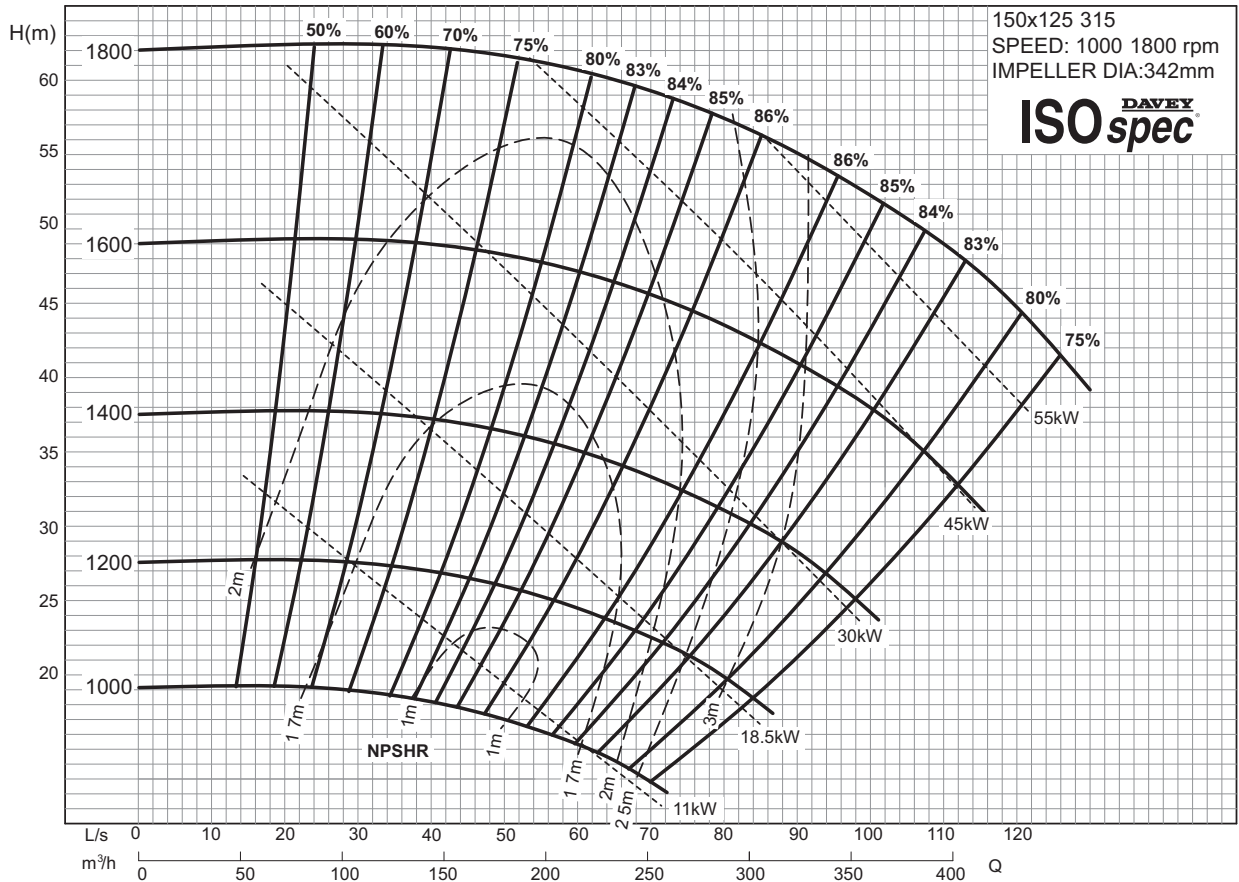
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## ISO **DAVEY** spec<sup>®</sup> *CF Series Variable Speed Performance Curve 150x125-250*



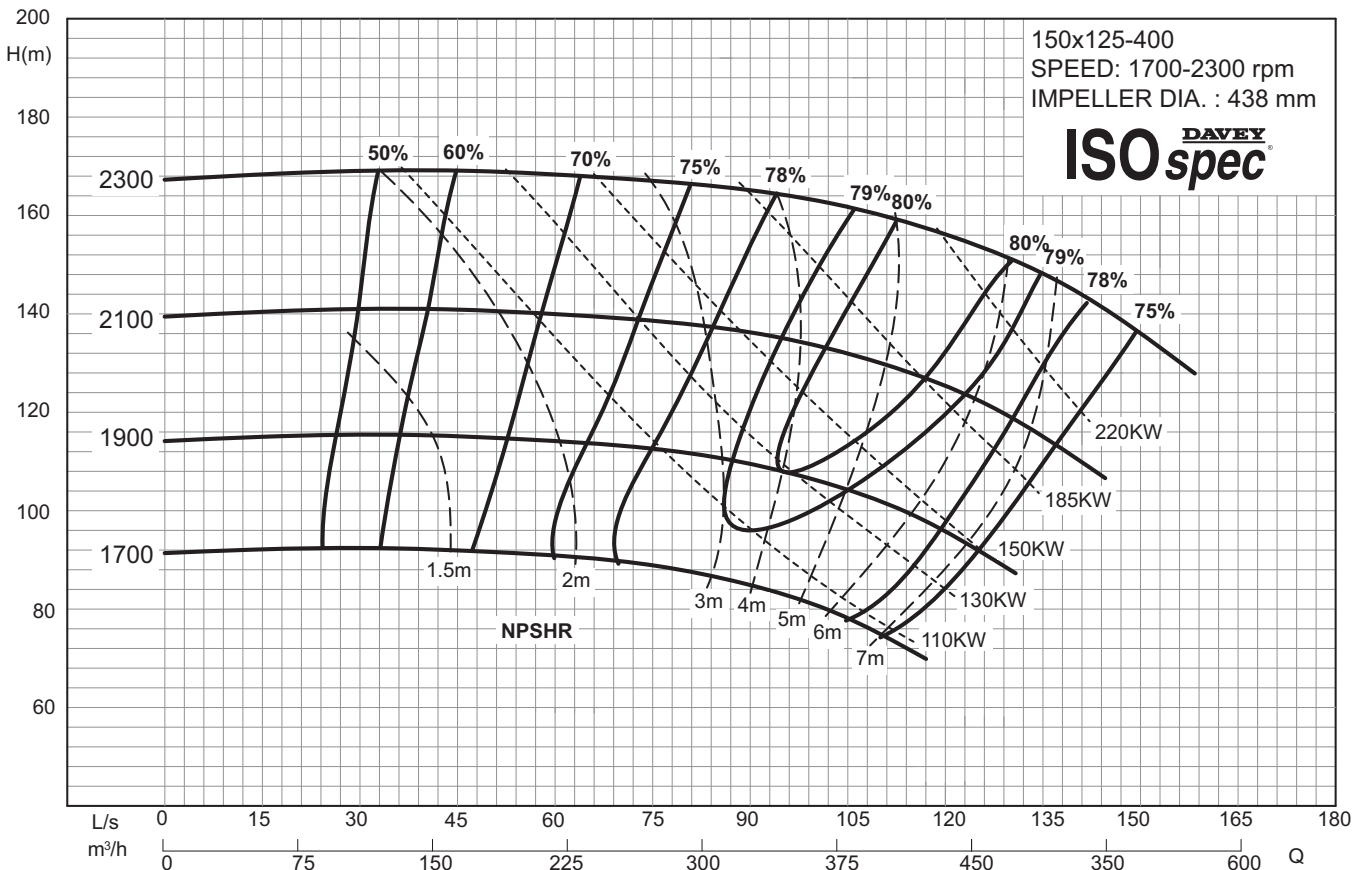
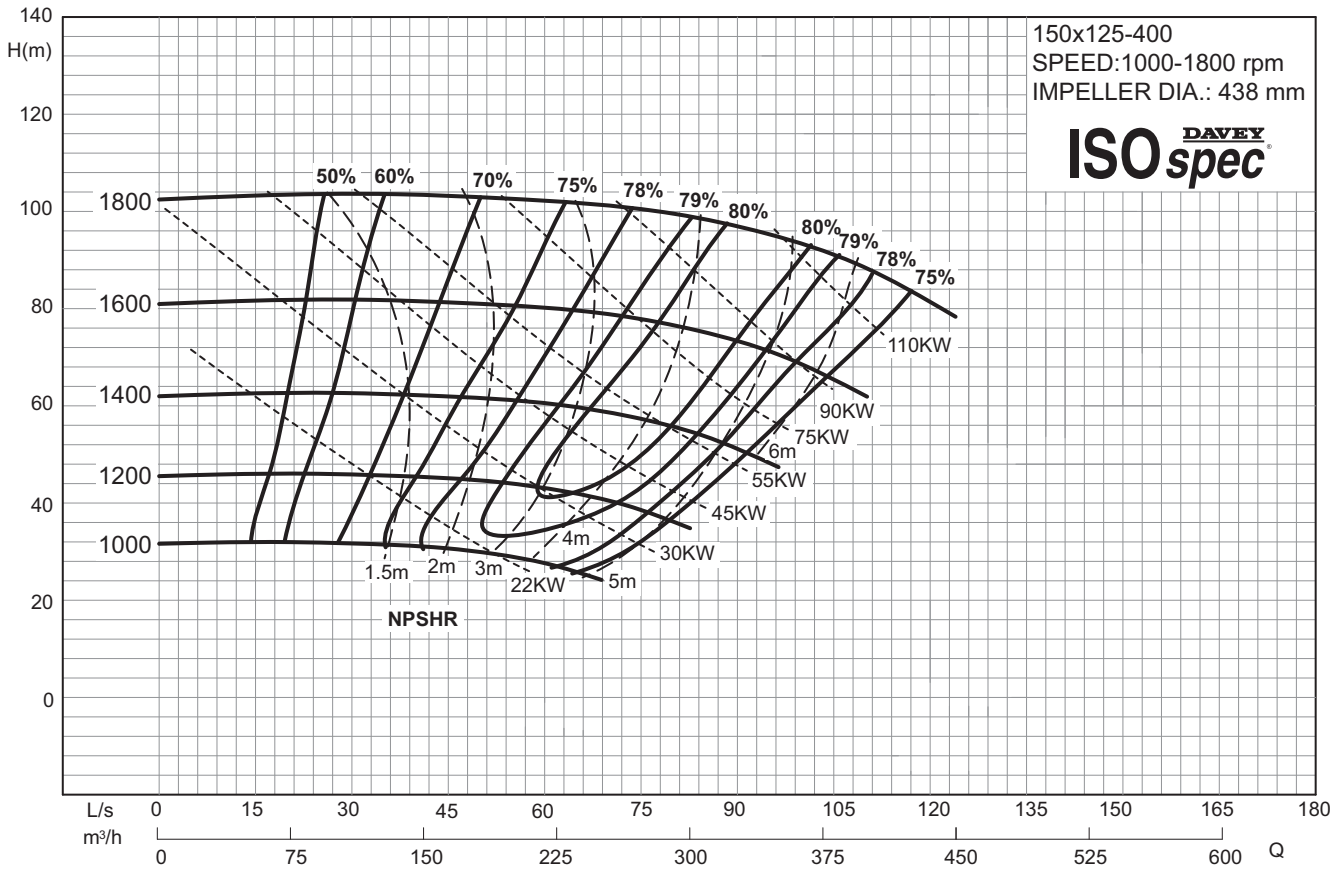
# TECHNICAL SPECIFICATIONS

## ISO **DAVEY** spec<sup>®</sup> *CF Series Variable Speed Performance Curve 150x125-315*



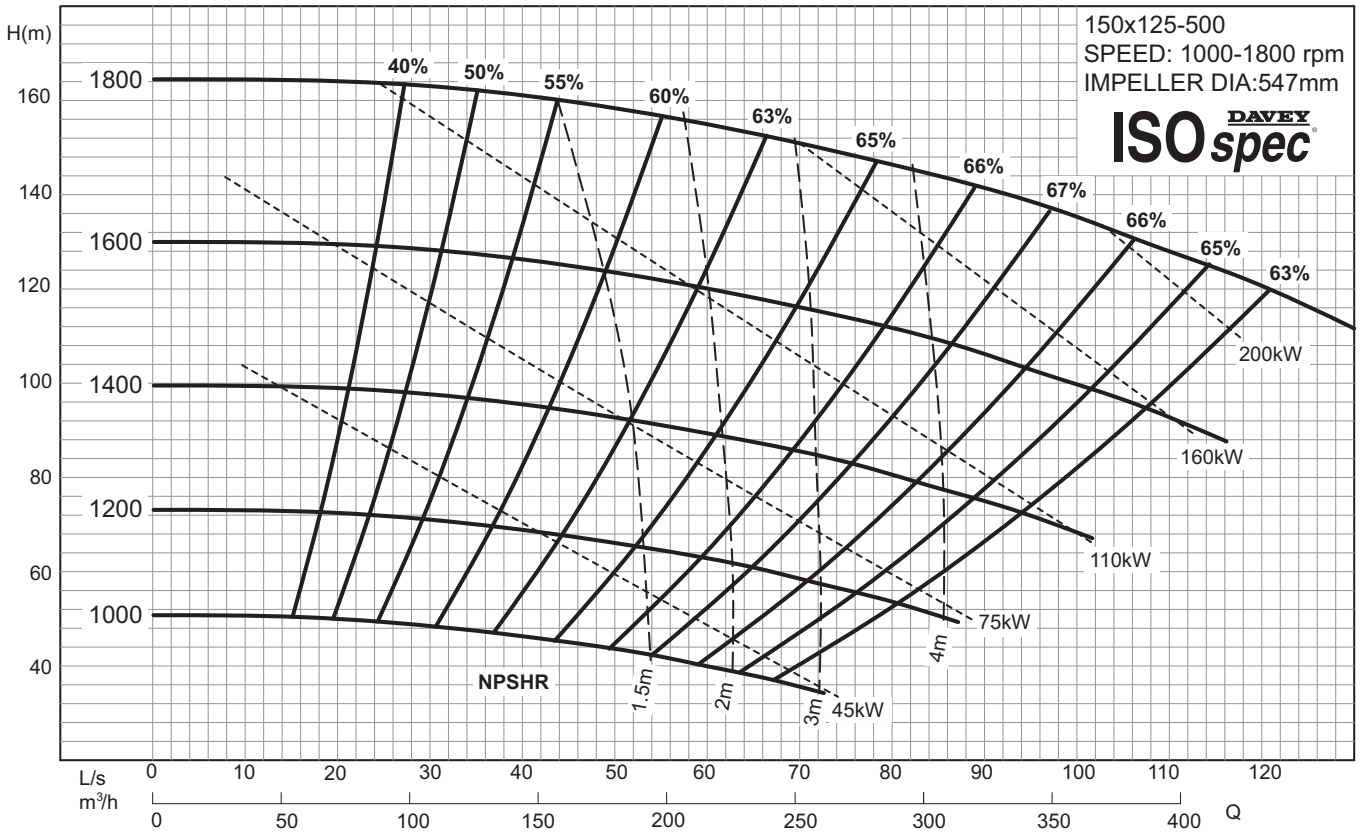
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## ISOspec<sup>®</sup> **DAVEY** *CF Series Variable Speed Performance Curve 150x125-400*

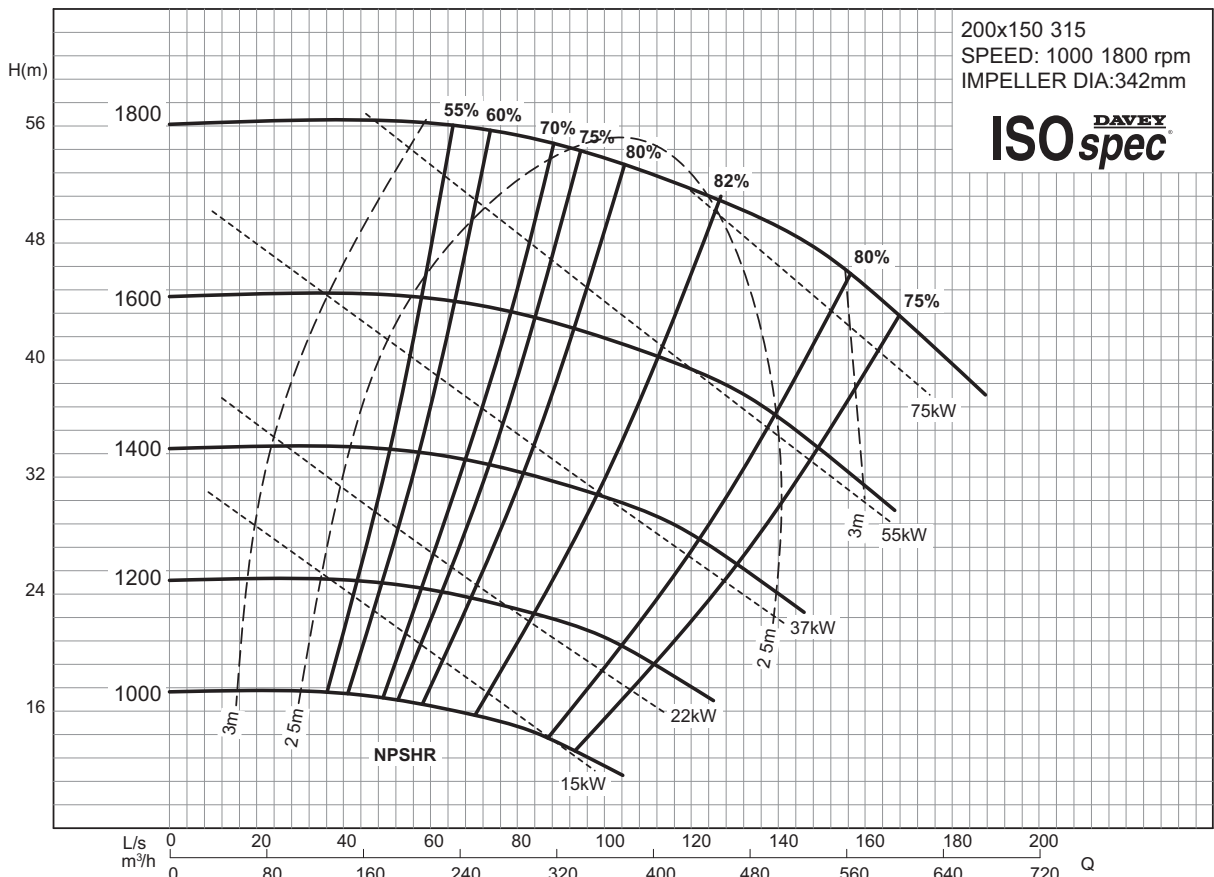


# TECHNICAL SPECIFICATIONS

## ISO spec <sup>DAVEY</sup> CF Series Variable Speed Performance Curve 150x125-500



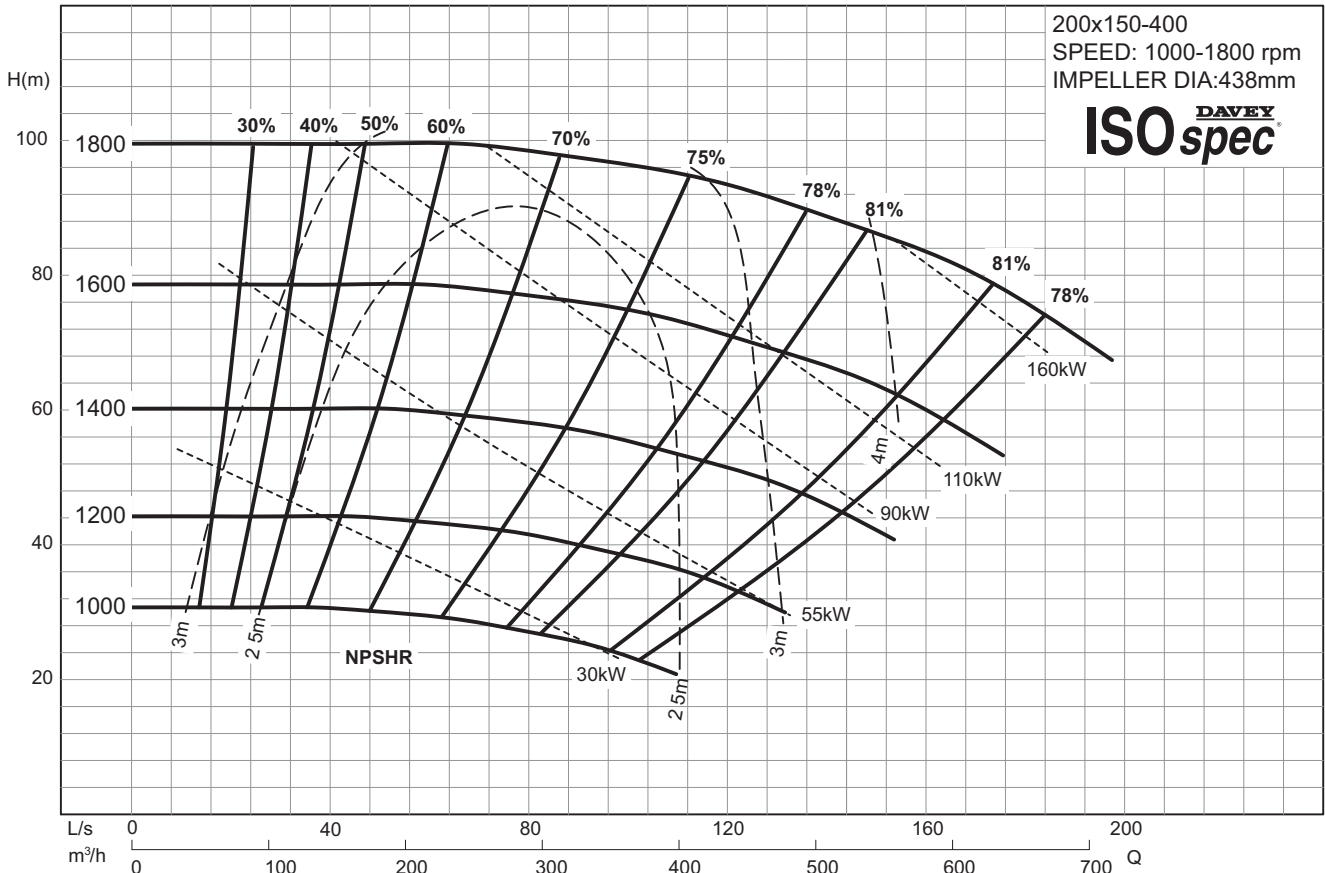
## CF Series Variable Speed Performance Curve 200x150-315



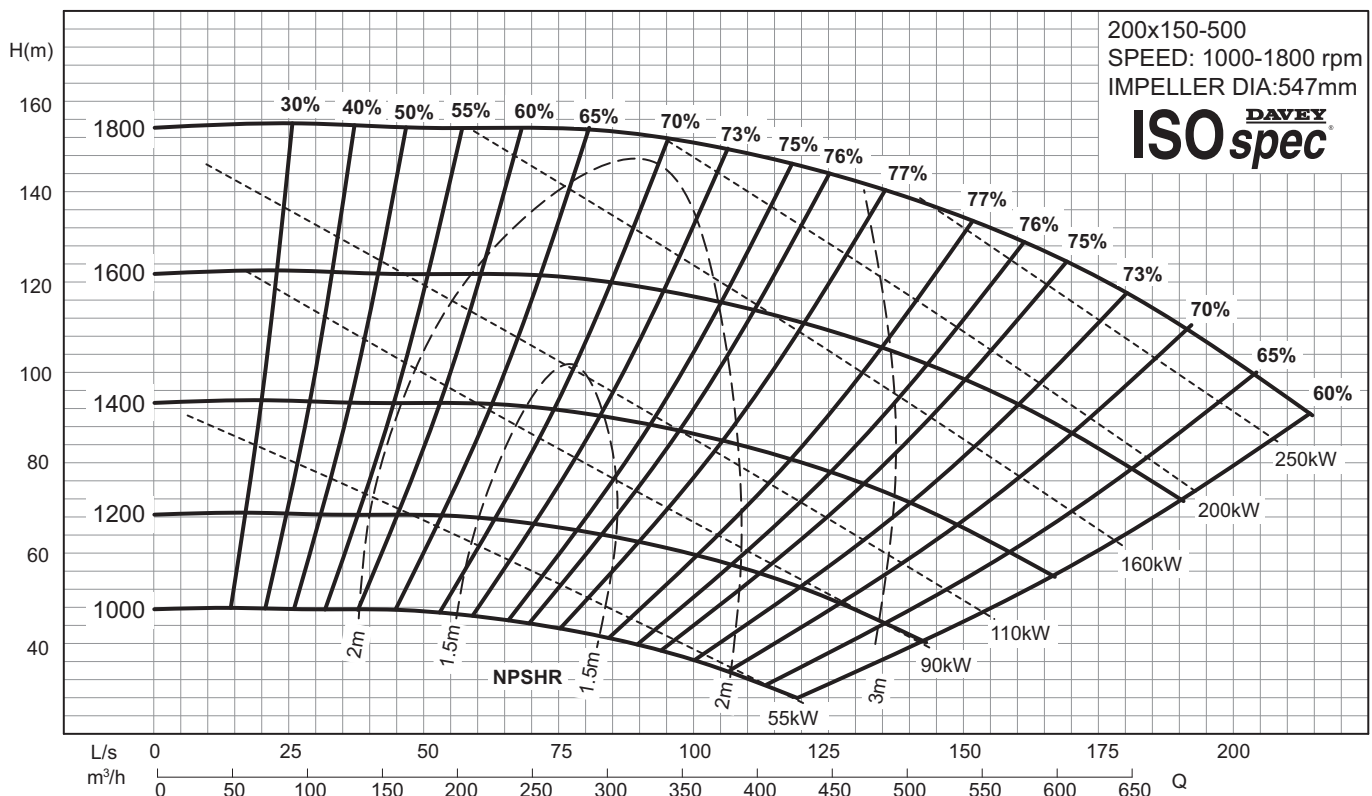
# TECHNICAL SPECIFICATIONS

**ISO spec** DAVEY

## *CF Series Variable Speed Performance Curve 200x150-400*

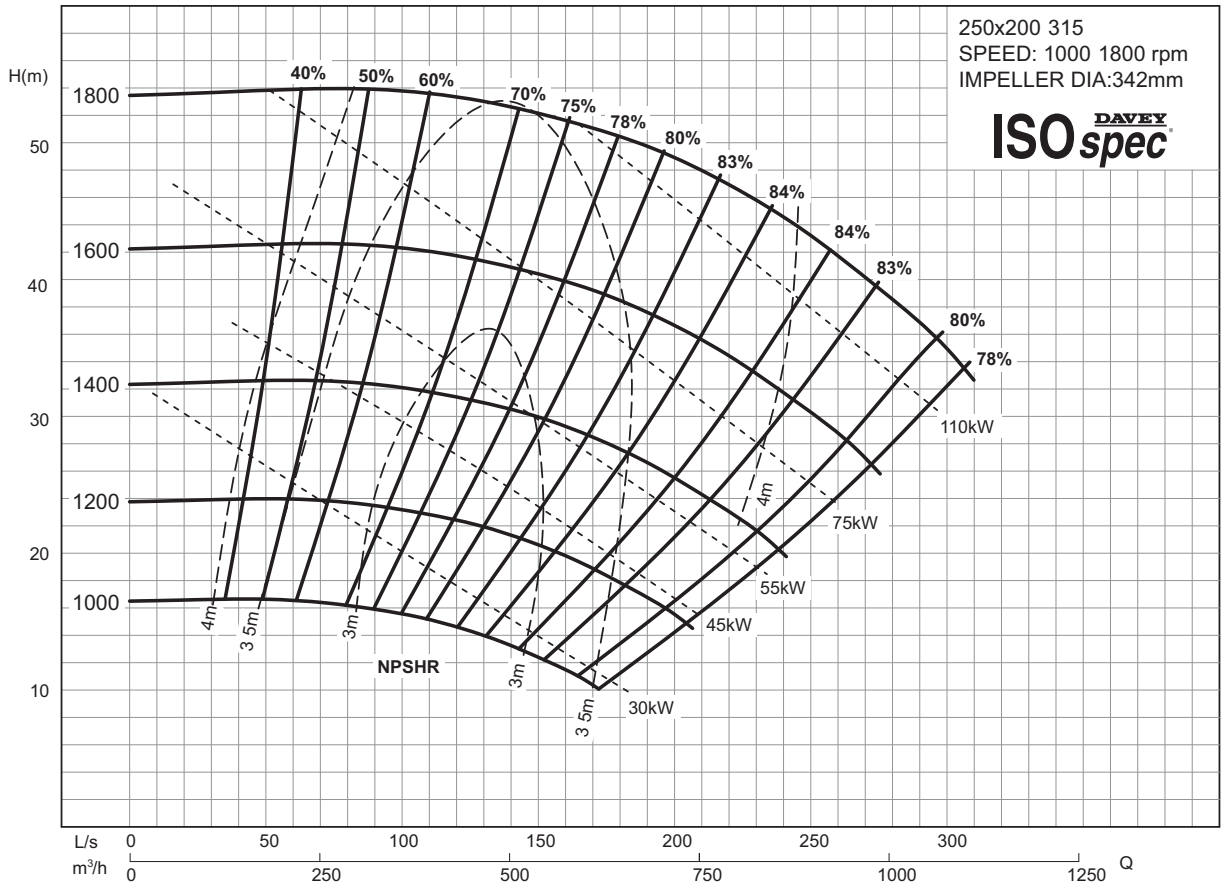


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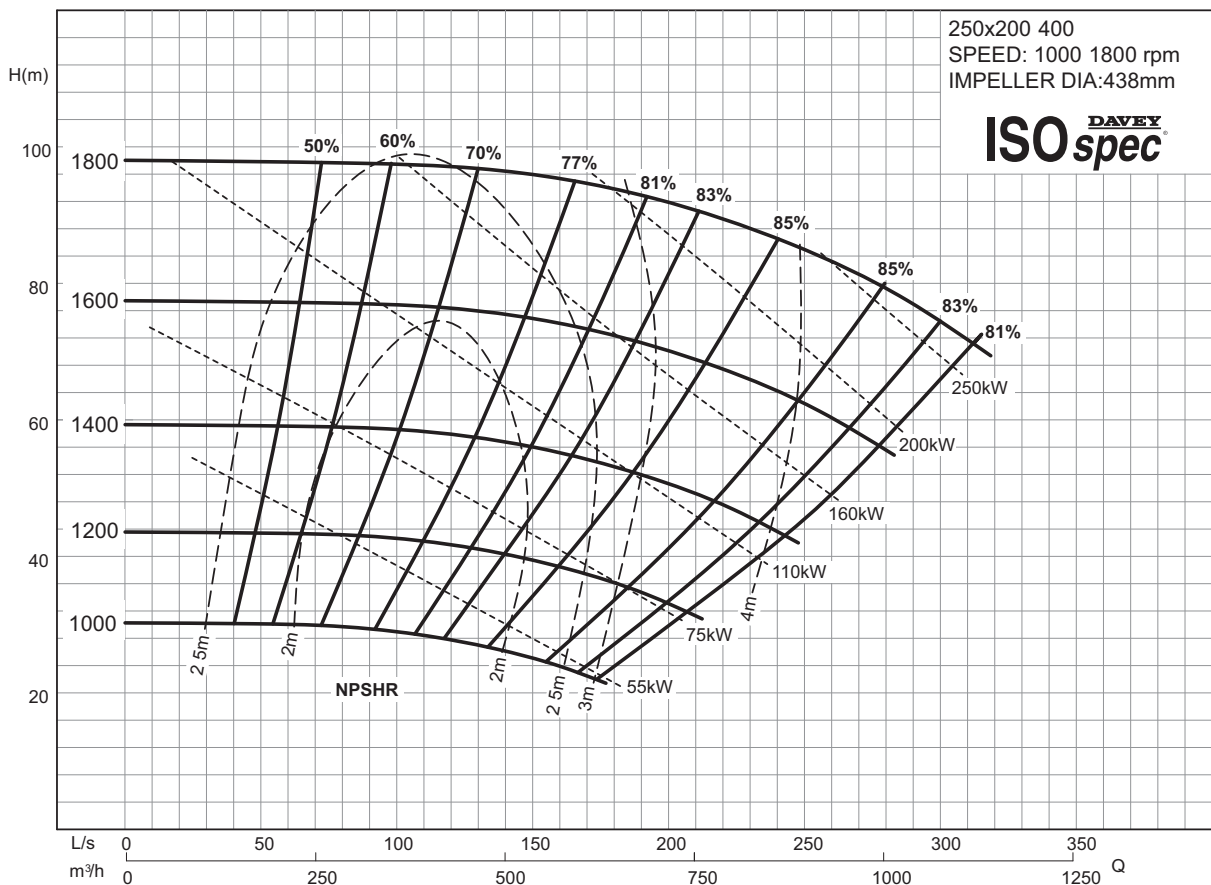




## ISO DAVEY spec CF Series Variable Speed Performance Curve 250x200-315



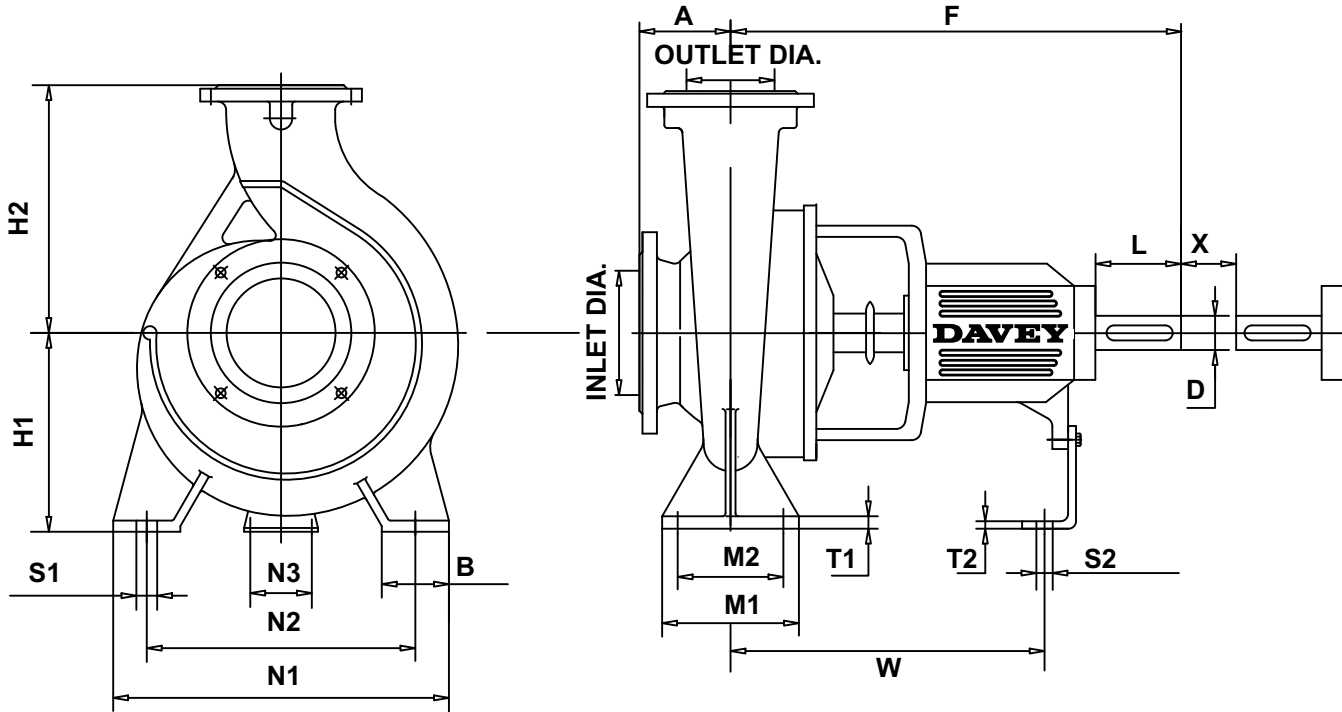
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# TECHNICAL SPECIFICATIONS

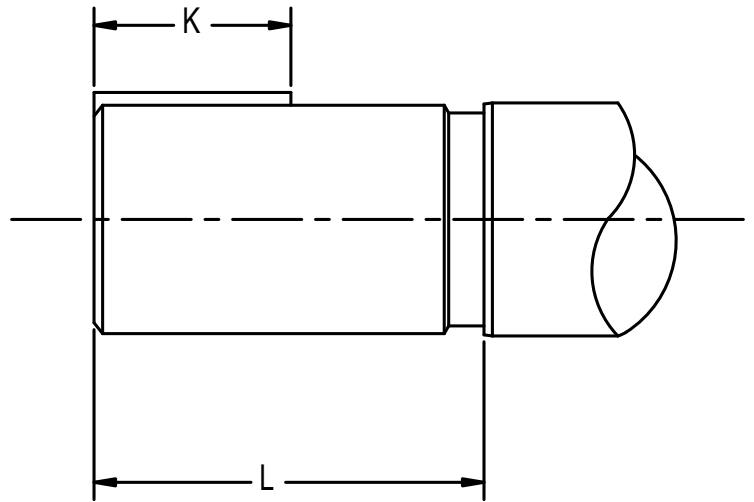
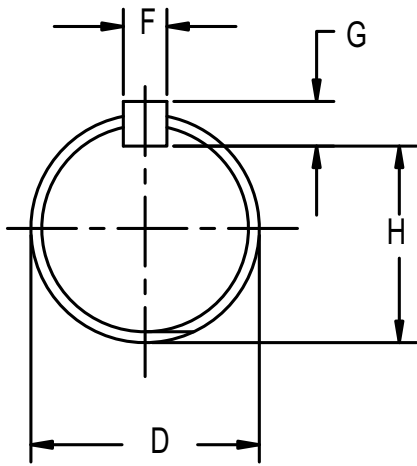


## CF Series Dimensions



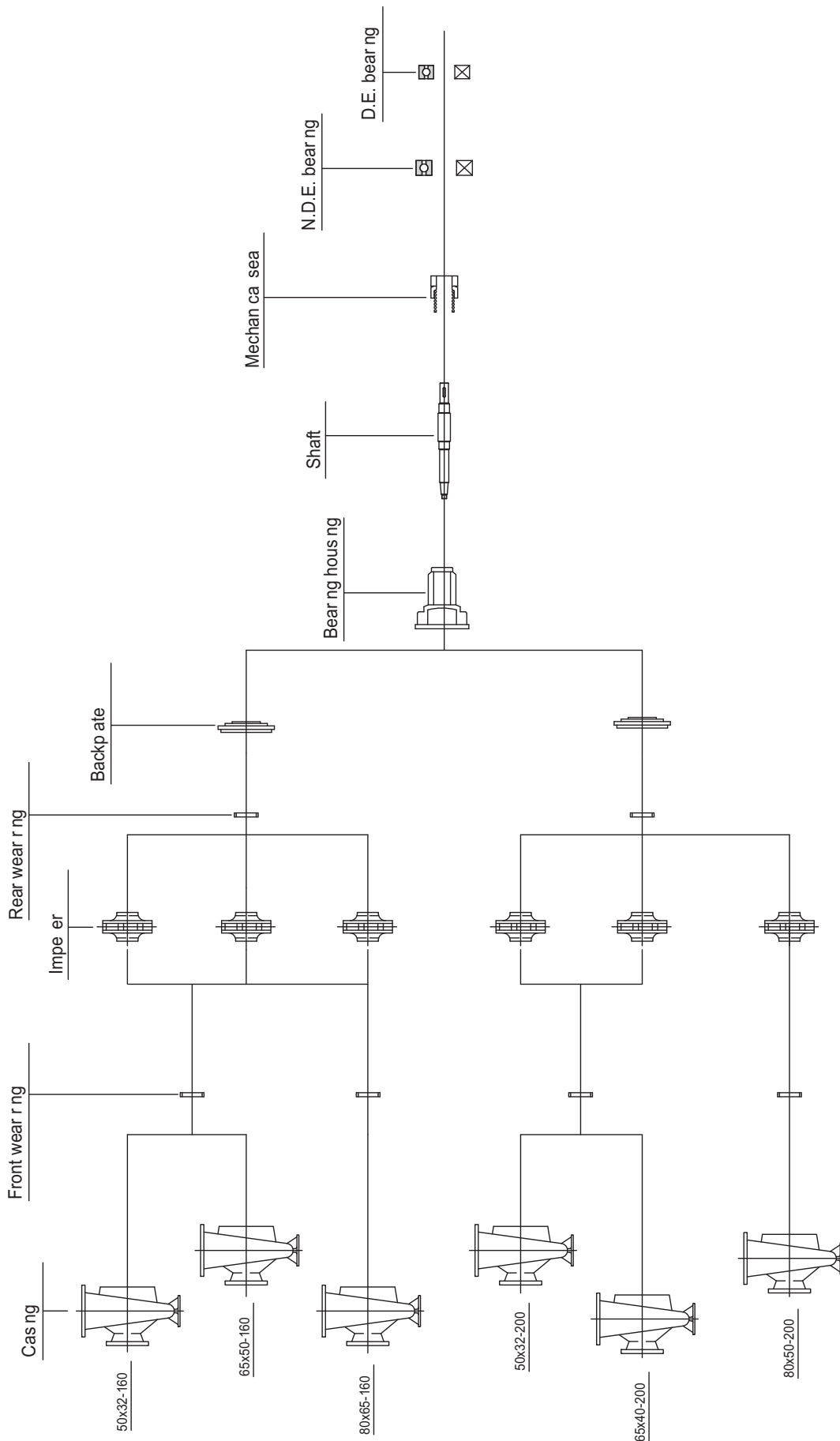
Pump End			Shaft No	Pump dimensions				Mounting Dimensions									Bolt Holes		Shaft End		Gap	Wt kg
In	Out	Imp		A	F	H1	H2	B	M1	M2	N1	N2	N3	T1	T2	W	S1	S2	D	L		
50	32	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	38
50	32	200	1	80	385	160	180	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	46
65	50	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	40
65	40	200	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	48
65	40	250	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	100	70
65	40	315	2	125	500	200	250	65	125	95	345	280	110	16	6	370	M12	M12	32	80	100	80
80	65	160	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	46
80	50	200	1	100	385	160	200	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	52
80	50	250	2	125	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	100	72
80	50	315	2	125	500	225	280	65	125	95	345	280	110	18	6	370	M12	M12	32	80	100	87
100	80	160	2	100	500	160	200	65	125	95	280	212	110	14	6	370	M12	M12	32	80	100	68
100	65	200	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	140	70
100	65	250	2	125	500	200	250	80	160	120	360	280	110	16	6	370	M16	M12	32	80	140	80
100	65	315	3	125	530	225	280	80	160	120	400	315	110	18	6	370	M16	M12	42	110	140	118
125	80	400	3	125	530	280	355	80	160	120	435	355	110	20	6	370	M16	M12	42	110	140	165
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125	100	250	3	140	530	225	280	80	160	120	400	315	110	18	6	370	M16	M12	42	110	140	126
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125	100	400	3	140	530	280	355	100	200	150	500	400	110	20	6	370	M20	M12	42	110	140	175
125	100	500	4	160	670	355	450	100	200	150	550	450	110	25	10	500	M20	M16	48	110	180	313
150	125	250	3	140	530	250	355	80	160	120	400	315	110	19	6	370	M16	M12	42	110	140	140
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150	125	400	3	140	530	315	400	100	200	150	500	400	110	21	6	370	M20	M12	42	110	140	186
150	125	500	4	160	670	355	450	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	336
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250	200	315	4	180	670	315	450	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	277
250	200	400	4	180	670	355	500	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	340

- Notes:
- Standard flange drilling to AS2129 Table E: 16 bar rating.
  - Dimensions in mm.
  - Gap necessary for the withdrawal of bearing housing, back cover and impeller assembly towards the drive end.

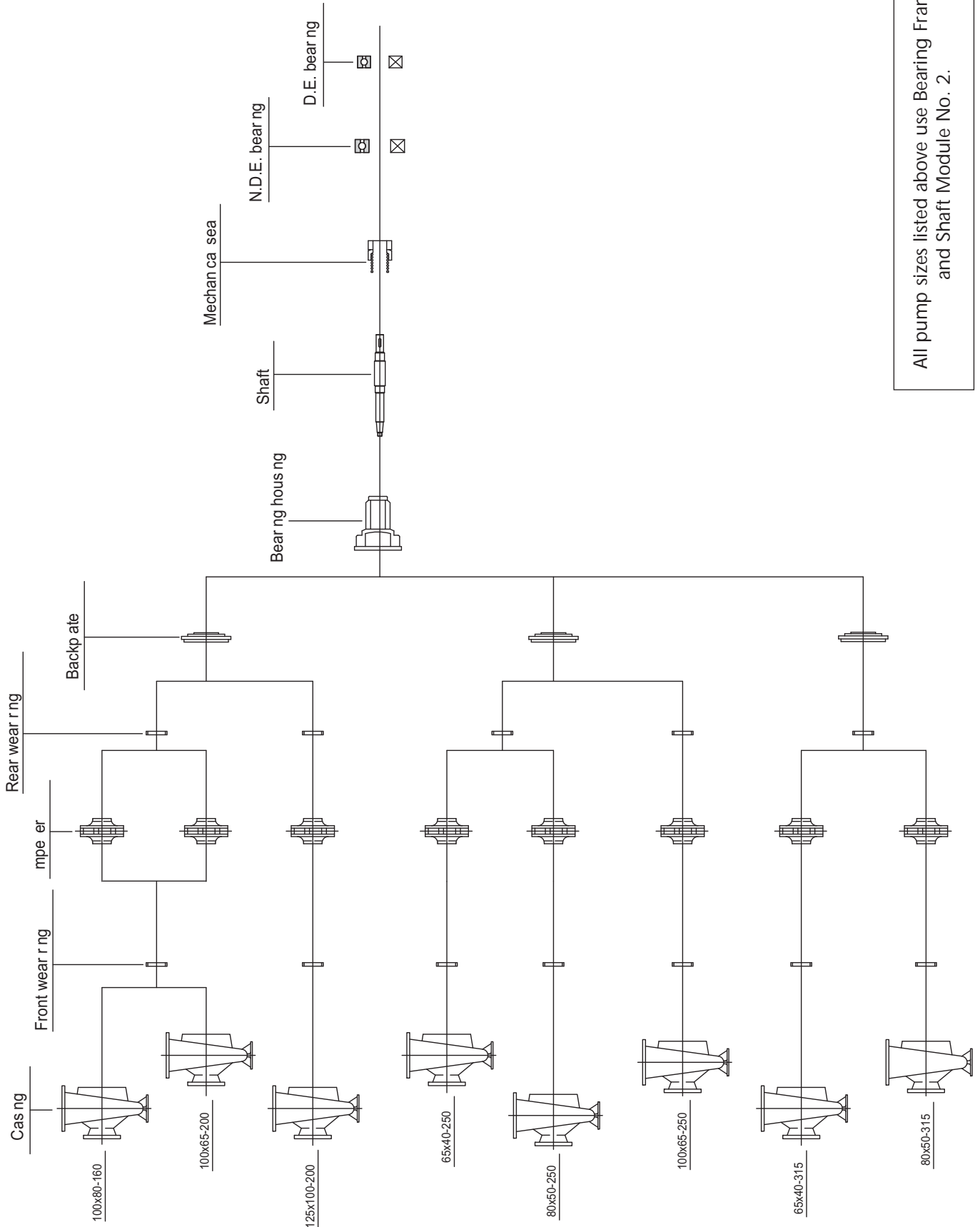


Module	Diameter Tolerance D	Key Width F	Key Height G	Keyway Depth Tolerance H	Key Length K	Working Length L
No. 1	24mm +0.015/-0.002	8	7	20mm +0/-0.2	32	50
No. 2	32mm +0.018/-0.002	10	8	27mm +0/-0.2	50	80
No. 3	42mm +0.018/-0.002	12	8	37mm +0/-0.2	60	110
No. 4	48mm +0.018/-0.002	14	9	42.5mm +0/-0.2	80	110

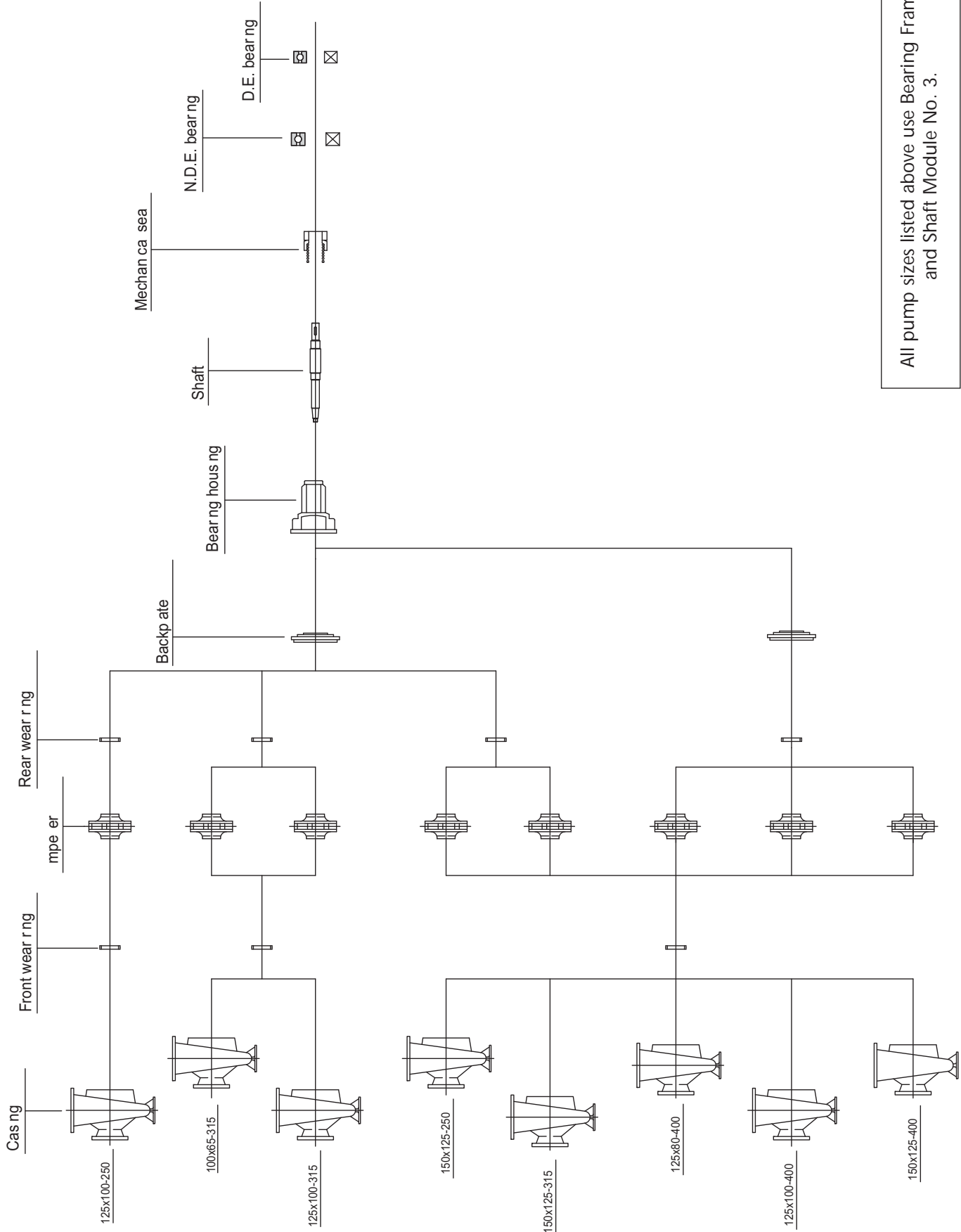
All dimensions in mm, unless otherwise stated.



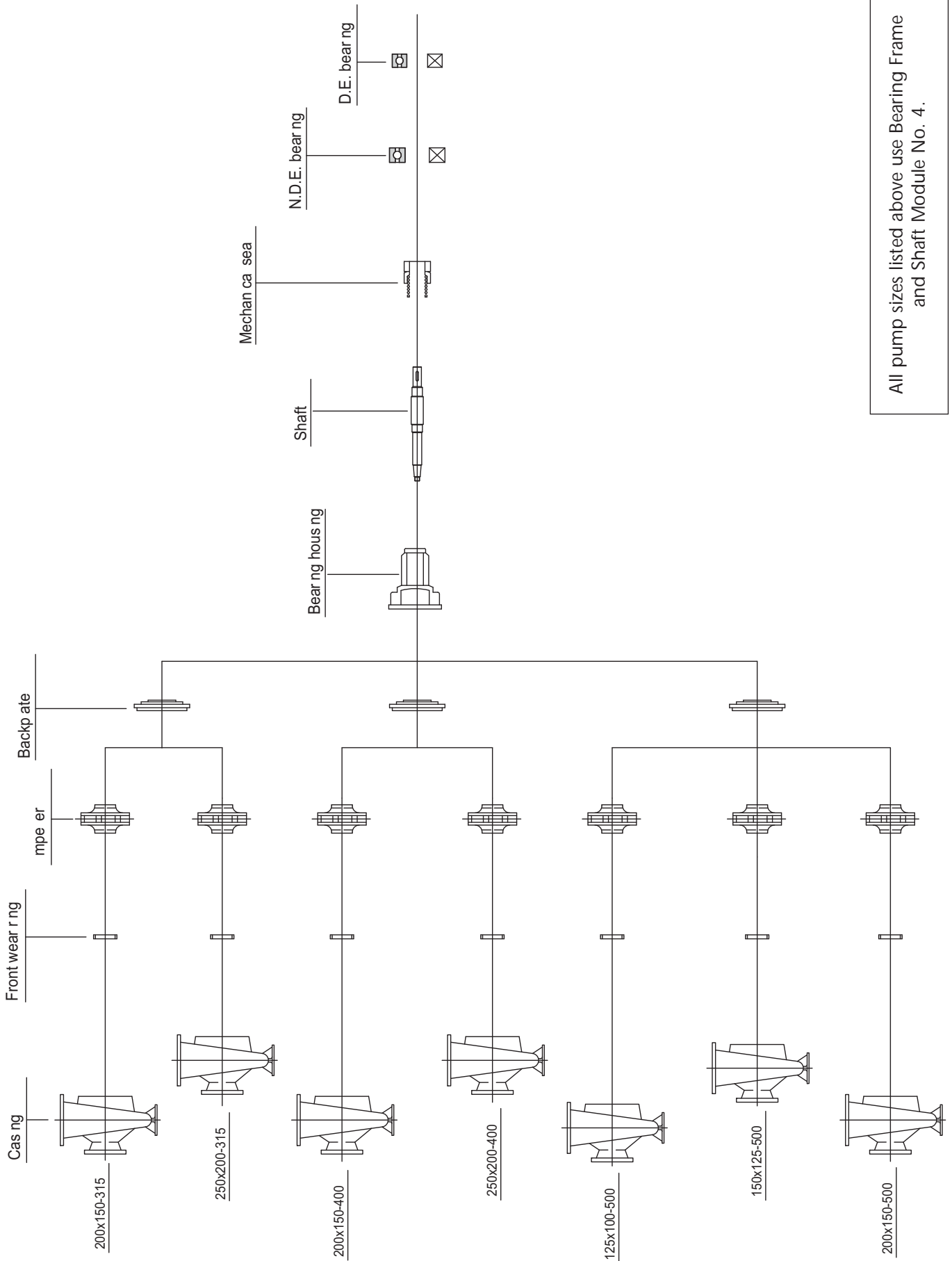
All pump sizes listed above use Bearing Frame and Shaft Module No. 1.



All pump sizes listed above use Bearing Frame and Shaft Module No. 2.



All pump sizes listed above use Bearing Frame and Shaft Module No. 3.

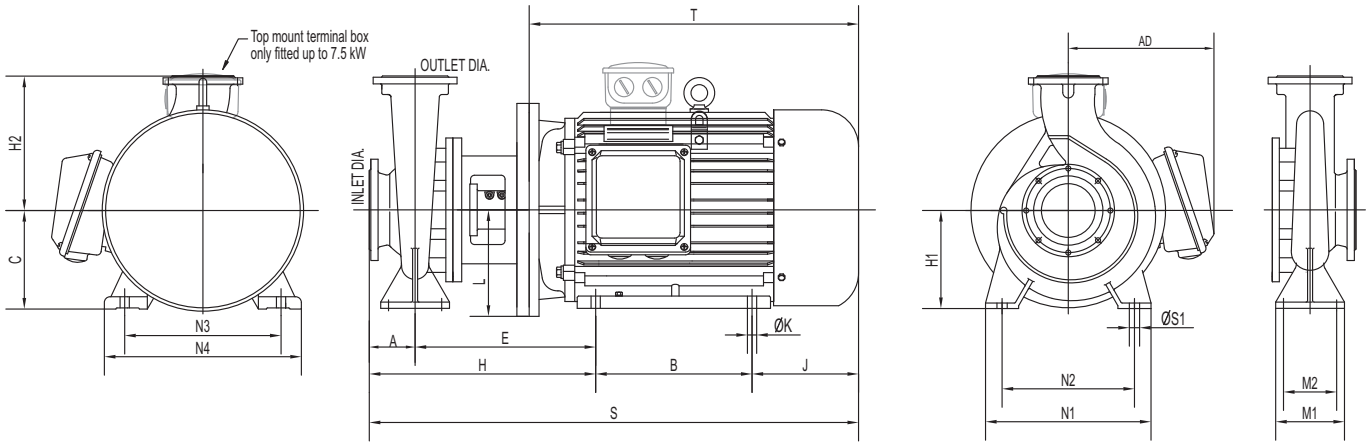


All pump sizes listed above use Bearing Frame and Shaft Module No. 4.

# TECHNICAL SPECIFICATIONS



## CM Series Dimensions - 2 Pole



Pump End			kW	Motor Frame	Pump Dimensions								Mounting Dimensions								Bolt Holes		Wt Kg		
In	Out	Imp			A	AD	C	H1	H2	L	S	T	B	E	H	J	M1	M2	N1	N2	N3	N4		K	S1
50	32	160	3	100L	80	N/A	100	132	160	125	568	320	140	231	311	117	100	70	240	190	160	205	12	14	57
			4	112M	80	N/A	112	132	160	125	588	340	140	238	318	130	100	70	240	190	190	245	12	14	60
			5.5	132S	80	N/A	132	132	160	150	663	395	140	277	357	166	100	70	240	190	216	280	12	14	75
50	32	200	5.5	132S	80	N/A	132	160	180	150	663	395	140	277	357	166	100	70	240	190	216	280	12	14	89
			7.5	132S	80	N/A	132	160	180	150	663	395	140	277	357	166	100	70	240	190	216	280	12	14	89
			11	160M	80	255	160	160	180	175	793	495	210	326	406	177	100	70	240	190	254	325	15	14	171
65	50	160	4	112M	80	N/A	112	132	160	125	588	340	140	238	318	130	100	70	240	190	190	245	12	14	63
			5.5	132S1	80	N/A	132	132	160	150	663	395	140	277	357	166	100	70	240	190	216	280	12	14	40
			7.5	132S2	80	N/A	132	132	160	150	663	395	140	277	357	166	100	70	240	190	216	280	12	14	83
65	40	200	7.5	132S	100	N/A	132	160	180	150	683	395	140	277	377	166	100	70	265	212	216	280	12	14	91
			11	160M	100	255	160	160	180	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	166
			15	160M	100	255	160	160	180	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	174
65	40	250	11	160M	100	255	160	180	225	175	821	495	210	334	434	177	125	95	320	250	254	325	15	14	185
			15	160M	100	255	160	180	225	175	821	495	210	334	434	177	125	95	320	250	254	325	15	14	194
			18.5	160L	100	255	160	180	225	175	866	540	254	334	434	178	125	95	320	250	254	325	15	14	216
			22	180M	100	270	180	180	225	175	886	560	241	347	447	198	125	95	320	250	279	355	15	14	251
			30	200L	100	310	200	180	225	200	991	665	305	359	459	227	125	95	320	250	318	395	19	14	315
65	40	315	22	180M	125	270	180	200	250	175	912	560	241	348	473	198	125	95	345	280	279	355	15	14	262
			30	200L	125	310	200	200	250	200	1017	665	305	360	485	227	125	95	345	280	318	395	19	14	324
			37	200L	125	310	200	200	250	200	1017	665	305	360	485	227	125	95	345	280	318	395	19	14	345
			45	225M	125	335	225	200	250	225	1057	705	311	376	501	245	125	95	345	280	356	435	19	14	413
80	65	160	5.5	132S	100	N/A	132	160	180	150	683	395	140	277	377	166	100	70	265	212	216	280	12	14	82
			7.5	132S	100	N/A	132	160	180	150	683	395	140	277	377	166	100	70	265	212	216	280	12	14	88
			11	160M	100	255	160	160	180	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	161
			15	160M	100	255	160	160	180	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	173
80	50	200	11	160M	100	255	160	160	200	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	166
			15	160M	100	255	160	160	200	175	813	495	210	326	426	177	100	70	265	212	254	325	15	14	174
			18.5	160L	100	255	160	160	200	175	858	540	254	326	426	178	100	70	265	212	254	325	15	14	196
			22	180M	100	270	180	160	200	175	878	560	241	339	439	198	100	70	265	212	279	355	15	14	230
80	50	250	22	180M	125	270	180	180	225	175	911.5	560	241	347.5	472.5	198	125	95	320	250	279	355	15	14	253
			30	200L	125	310	200	180	225	200	1016.5	665	305	359.5	484.5	227	125	95	320	250	318	395	19	14	316
			37	200L	125	310	200	180	225	200	1016.5	665	305	359.5	484.5	227	125	95	320	250	318	395	19	14	336
			45	225M	125	335	225	180	225	225	1056.5	705	311	375.5	500.5	245	125	95	320	250	356	435	19	14	404
80	50	315	30	200L	125	310	200	225	280	200	1017	665	305	360	485	227	125	95	345	280	318	395	19	14	328
			37	200L	125	310	200	225	280	200	1017	665	305	360	485	227	125	95	345	280	318	395	19	14	348
			45	225M	125	335	225	225	280	225	1057	705	311	376	501	245	125	95	345	280	356	435	19	14	416
			55	250M	125	385	250	225	280	275	1172	790	349	425	550	273	125	95	345	280	406	490	24	14	501
			75	280S	125	410	280	225	280	275	1242	860	368	447	572	302	125	95	345	280	457	545	24	14	649



# TECHNICAL SPECIFICATIONS



## CM Series Dimensions - 2 Pole continued...

Pump End			kW	Motor Frame	Pump Dimensions								Mounting Dimensions								Bolt Holes		Wt Kg		
In	Out	Imp			A	AD	C	H1	H2	L	S	T	B	E	H	J	M1	M2	N1	N2	N3	N4		K	S1
100	80	160	11	160M	100	255	160	160	200	175	822	495	210	335	435	177	125	95	280	212	254	325	15	14	183
			15	160M	100	255	160	160	200	175	822	495	210	335	435	177	125	95	280	212	254	325	15	14	191
			18.5	160L	100	255	160	160	200	175	867	540	254	335	435	178	125	95	280	212	254	325	15	14	214
100	65	200	18.5	160L	100	255	160	180	225	175	867	540	254	335	435	178	125	95	320	250	254	325	15	14	214
			22	180M	100	270	180	180	225	175	887	560	241	348	448	198	125	95	320	250	279	355	15	14	248
			30	200L	100	310	200	180	225	200	992	665	305	360	460	227	125	95	320	250	318	395	19	14	310
			37	200L	100	310	200	180	225	200	992	665	305	360	460	227	125	95	320	250	318	395	19	14	330
100	65	250	30	200L	125	310	200	200	250	200	10165	665	305	359.5	484.5	227	160	120	360	280	318	395	19	18	311
			37	200L	125	310	200	200	250	200	10165	665	305	359.5	484.5	227	160	120	360	280	318	395	19	18	331
			45	225M	125	335	225	200	250	225	10565	705	311	375.5	500.5	245	160	120	360	280	356	435	19	18	400
			55	250M	125	385	250	200	250	275	11715	790	349	424.5	549.5	273	160	120	360	280	406	490	24	18	487
			75	280S	125	410	280	200	250	275	12415	860	368	446.5	571.5	302	160	120	360	280	457	545	24	18	635
100	65	315	55	250M	125	385	250	225	280	275	1197	790	349	450	575	273	160	120	400	315	406	490	24	18	529
			75	280S	125	410	280	225	280	275	1267	860	368	472	597	302	160	120	400	315	457	545	24	18	680
			90	280M	125	410	280	225	280	275	1317	910	419	472	597	301	160	120	400	315	457	545	24	18	745
			110	315S	125	530	315	225	280	330	1507	1100	406	498	623	478	160	120	400	315	508	744	28	18	1115
125	100	200	30	200L	125	310	200	200	280	200	1017	665	305	360	485	227	160	120	360	280	318	395	19	18	320
			37	200L	125	310	200	200	280	200	1017	665	305	360	485	227	160	120	360	280	318	395	19	18	340
			45	225M	125	335	225	200	280	225	1057	705	311	376	501	245	160	120	360	280	356	435	19	18	410
			55	250M	125	385	250	200	280	275	1172	790	349	425	550	273	160	120	360	280	406	490	24	18	499
125	100	250	75	280S	125	410	280	200	280	275	1242	860	368	447	572	302	160	120	360	280	457	545	24	18	645
			55	250M	140	385	250	225	280	275	1212	790	349	450	590	273	160	120	400	315	406	490	24	18	532
			75	280S	140	410	280	225	280	275	1282	860	368	472	612	302	160	120	400	315	457	545	24	18	680
			90	280M	140	410	280	225	280	275	1332	910	419	472	612	301	160	120	400	315	457	545	24	18	745
125	100	315	110	315S	140	530	315	225	280	330	1522	1100	406	498	638	478	160	120	400	315	508	744	28	18	1117
			90	280M	140	410	280	250	315	275	1332	910	419	472	612	301	160	120	400	315	457	545	24	18	745
125	100	315	110	315S	140	530	315	250	315	330	1522	1100	406	498	638	478	160	120	400	315	508	628	28	18	1230

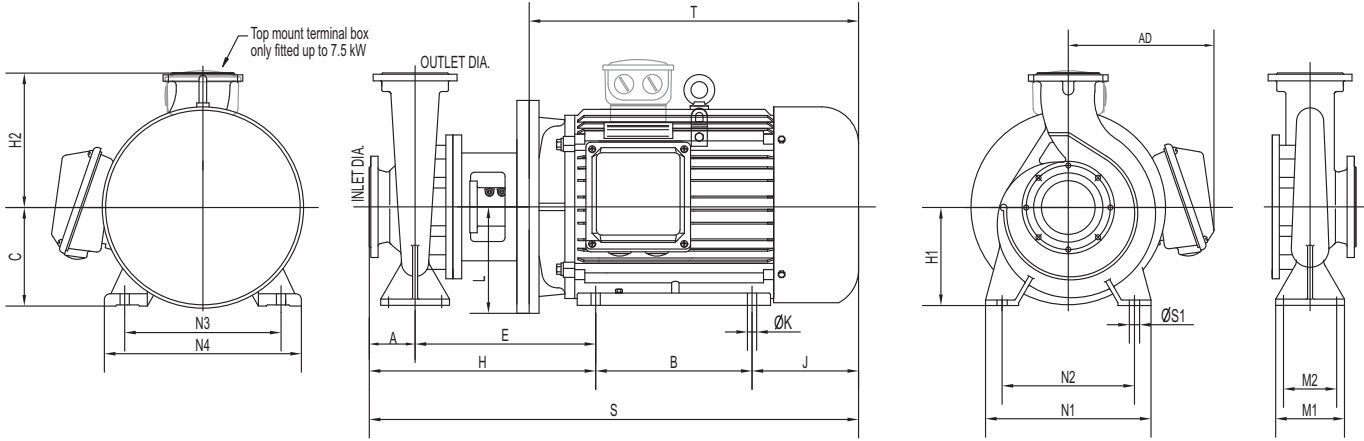
- Notes:
1. Standard flange drilling to AS2129 Table E: 16 bar rating.
  2. Dimensions in mm.
  3. All motors listed are 415V. Other voltages are available upon request.
  4. All motors up to 7.5kW have top mounted terminal box.

N/A = Not Applicable

# TECHNICAL SPECIFICATIONS



## CM Series Dimensions - 4 Pole



Pump End			kW	Motor Frame	Pump Dimensions								Mounting Dimensions								Bolt Holes		Wt Kg		
In	Out	Imp			A	AD	C	H1	H2	L	S	T	B	E	H	J	M1	M2	N1	N2	N3	N4		K	S1
50	32	200	1.1	90S	80	N/A	90	160	180	100	493	260	100	209	289	104	100	70	240	190	140	180	10	14	54
			1.5	90L	80	N/A	90	160	180	100	518	285	125	209	289	104	100	70	240	190	140	180	10	14	55
65	50	160	1.1	90S	80	N/A	90	132	160	100	493	260	100	209	289	104	100	70	240	190	140	180	10	14	47
			1.1	90S	100	N/A	90	160	180	100	513	260	100	209	309	104	100	70	265	212	140	180	10	14	55
			1.5	90L	100	N/A	90	160	180	100	538	285	125	209	309	104	100	70	265	212	140	180	10	14	56
65	40	200	2.2	100L	100	N/A	100	160	180	125	588	320	140	231	331	117	100	70	265	212	160	205	12	14	67
			1.5	90L	100	N/A	90	180	225	100	547	285	125	218	318	104	125	95	320	250	140	180	10	14	77
			2.2	100L	100	N/A	100	180	225	125	596	320	140	239	339	117	125	95	320	250	160	205	12	14	89
65	40	250	3	100L	100	N/A	100	180	225	125	596	320	140	239	339	117	125	95	320	250	160	205	12	14	91
			2.2	100L	100	N/A	100	180	225	125	596	320	140	239	339	117	125	95	320	250	160	205	12	14	89
			3	100L	100	N/A	100	180	225	125	596	320	140	239	339	117	125	95	320	250	160	205	12	14	91
65	40	315	3	100L	125	N/A	100	200	250	125	622	320	140	240	365	117	125	95	345	280	160	205	12	14	100
			4	112M	125	N/A	112	200	250	125	642	340	140	247	372	130	125	95	345	280	190	245	12	14	105
			5.5	132S	125	N/A	132	200	250	150	717	395	140	286	411	166	125	95	345	280	216	280	12	14	125
80	65	160	1.5	90L	100	N/A	90	160	180	100	538	285	125	209	309	104	100	70	265	212	140	180	10	14	55
			1.5	90L	100	N/A	90	160	200	100	538	285	125	209	309	104	100	70	265	212	140	180	10	14	59
			2.2	100L	100	N/A	100	160	200	125	588	320	140	231	331	117	100	70	265	212	160	205	12	14	69
80	50	200	3	100L	100	N/A	100	160	200	125	588	320	140	231	331	117	100	70	265	212	160	205	12	14	71
			2.2	100L	100	N/A	100	160	200	125	588	320	140	231	331	117	100	70	265	212	160	205	12	14	71
			3	100L	100	N/A	100	160	200	125	588	320	140	231	331	117	100	70	265	212	160	205	12	14	71
80	50	250	3	100L	125	N/A	100	180	225	125	621.5	320	140	239.5	364.5	117	125	95	320	250	160	205	12	14	91
			4	112M	125	N/A	112	180	225	125	641.5	340	140	246.5	371.5	130	125	95	320	250	190	245	12	14	95
			5.5	132S	125	N/A	132	180	225	150	716.5	395	140	285.5	410.5	166	125	95	320	250	216	280	12	14	114
80	50	315	4	112M	125	N/A	112	225	280	125	642	340	140	247	372	130	125	95	345	280	190	245	12	14	108
			5.5	132S	125	N/A	132	225	280	150	717	395	140	286	411	166	125	95	345	280	216	280	12	14	128
			7.5	132M	125	N/A	132	225	280	150	757	435	178	286	411	168	125	95	345	280	216	280	12	14	138
			11	160M	125	255	132	225	280	150	757	435	178	286	411	168	125	95	345	280	216	280	12	14	206
100	80	160	1.5	90L	100	N/A	90	160	200	100	548	285	125	219	319	104	125	95	280	212	140	180	10	14	76
			2.2	100L	100	N/A	100	160	200	125	597	320	140	240	340	117	125	95	280	212	160	205	12	14	86
			3	100L	100	N/A	100	160	200	125	597	320	140	240	340	117	125	95	280	212	160	205	12	14	88
100	65	200	3	100L	100	N/A	100	180	225	125	597	320	140	240	340	117	125	95	320	250	160	205	12	14	89
			4	112M	100	N/A	112	180	225	125	617	340	140	247	347	130	125	95	320	250	190	245	12	14	92
			5.5	132S	100	N/A	132	180	225	150	692	395	140	286	386	166	125	95	320	250	216	280	12	14	110
100	65	250	4	112M	125	N/A	112	200	250	125	641.5	340	140	246.5	371.5	130	160	120	360	280	190	245	12	18	94
			5.5	132S	125	N/A	132	200	250	150	716.5	395	140	285.5	410.5	166	160	120	360	280	216	280	12	18	113
			7.5	132M	125	N/A	132	200	250	150	756.5	435	178	285.5	410.5	168	160	120	360	280	216	280	12	18	123
100	65	315	7.5	132M	125	N/A	132	225	280	150	782	435	178	311	436	168	160	120	400	315	216	280	12	18	186
			11	160M	125	255	160	225	280	175	872	495	210	360	485	177	160	120	400	315	254	325	15	18	238
			15	160L	125	255	160	225	280	175	917	540	254	360	485	178	160	120	400	315	254	325	15	18	259

# TECHNICAL SPECIFICATIONS



## CM Series Dimensions - 4 Pole continued...

Pump End			kW	Motor Frame	Pump Dimensions								Mounting Dimensions								Bolt Holes		Wt Kg		
In	Out	Imp			A	AD	C	H1	H2	L	S	T	B	E	H	J	M1	M2	N1	N2	N3	N4		K	S1
125	100	200	4	112M	125	N/A	112	200	280	125	642	340	140	247	372	130	160	120	360	280	190	245	12	18	102
			5.5	132S	125	N/A	132	200	280	150	717	395	140	286	411	166	160	120	360	280	216	280	12	18	121
			7.5	132L	125	N/A	132	200	280	150	757	435	178	286	411	168	160	120	360	280	216	280	12	18	131
125	100	250	7.5	132M	140	N/A	132	225	280	150	797	435	178	311	451	168	160	120	400	315	216	280	12	18	173
			11	160M	140	255	160	225	280	175	887	495	210	360	500	177	160	120	400	315	254	325	15	18	246
			15	160L	140	255	160	225	280	175	932	540	254	360	500	178	160	120	400	315	254	325	15	18	267
125	100	315	11	160M	140	255	160	250	315	175	887	495	210	360	500	177	160	120	400	315	254	325	15	18	252
			15	160L	140	255	160	250	315	175	932	540	254	360	500	178	160	120	400	315	254	325	15	18	273
			18.5	180M	140	270	180	250	315	175	952	560	241	373	513	198	160	120	400	315	279	355	15	18	314
			22	180L	140	270	180	250	315	175	992	600	279	373	513	200	160	120	400	315	279	355	15	18	322
150	125	250	11	160M	140	258	160	250	355	175	887	495	210	360	500	177	160	120	400	315	254	325	15	18	258
			15	160L	140	255	160	250	355	175	932	540	254	360	500	178	160	120	400	315	254	325	15	18	279
			18.5	180M	140	270	180	250	355	175	952	560	241	373	513	198	160	120	400	315	279	355	15	18	317
			22	180L	140	270	180	250	355	175	992	600	279	373	513	200	160	120	400	315	279	355	15	18	325
150	125	315	18.5	180M	140	270	180	280	355	175	952	560	241	373	513	198	200	150	500	400	279	355	15	24	327
			22	180L	140	270	180	280	355	175	992	600	279	373	513	200	200	150	500	400	279	355	15	24	335
			30	Y200L	140	310	200	280	355	200	1057	665	305	385	525	227	200	150	500	400	318	395	19	24	410
			37	225S	140	335	225	280	355	225	1102	680	286	431	571	245	200	150	500	400	356	435	19	24	462

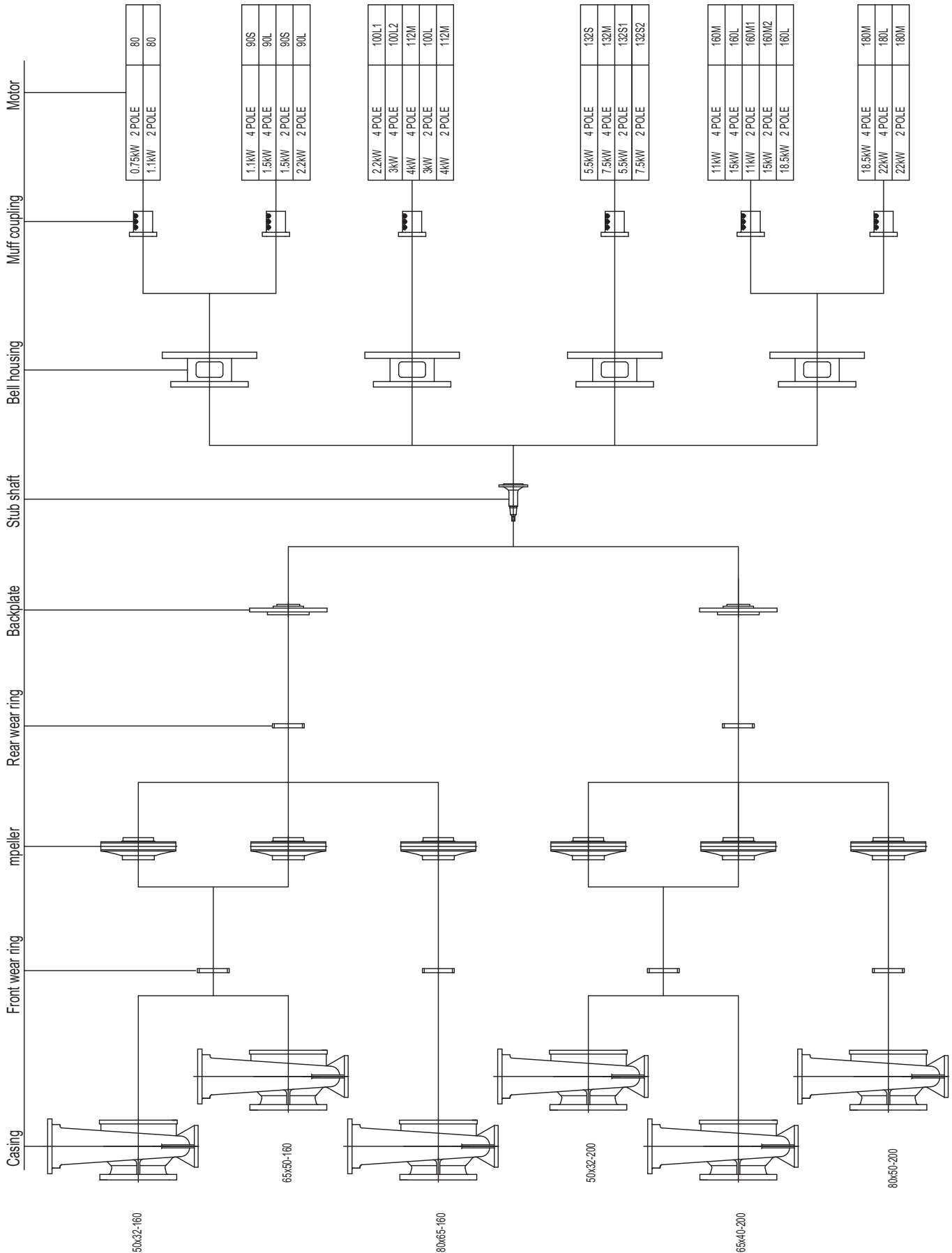
- Notes:
1. Standard flange drilling to AS2129 Table E: 16 bar rating.
  2. Dimensions in mm.
  3. All motors listed are 415V.
  4. All motors up to 7.5kW have top mounted terminal box.

N/A = Not Applicable

# TECHNICAL SPECIFICATIONS



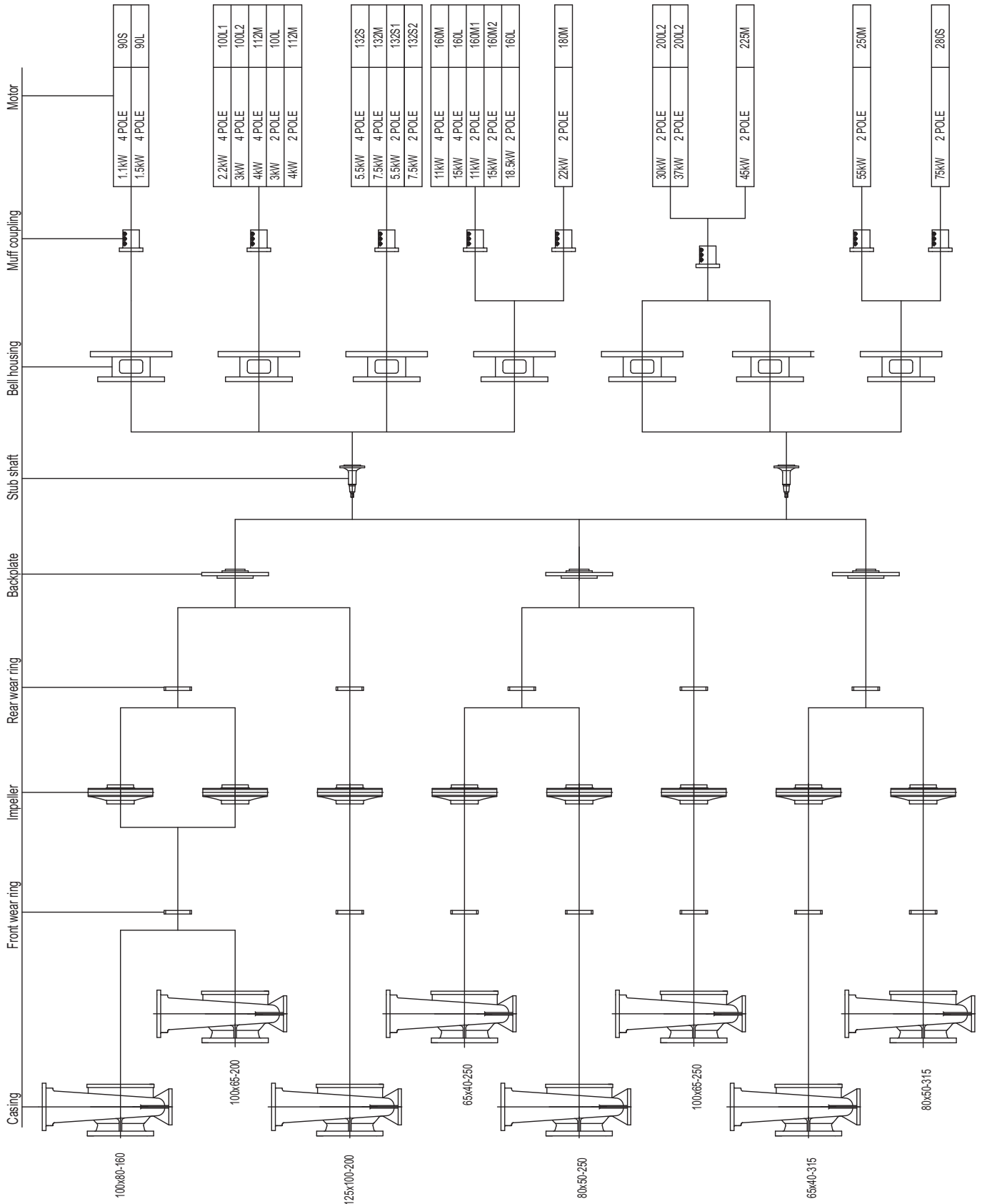
## CM Series Shaft Module No. 1



# TECHNICAL SPECIFICATIONS



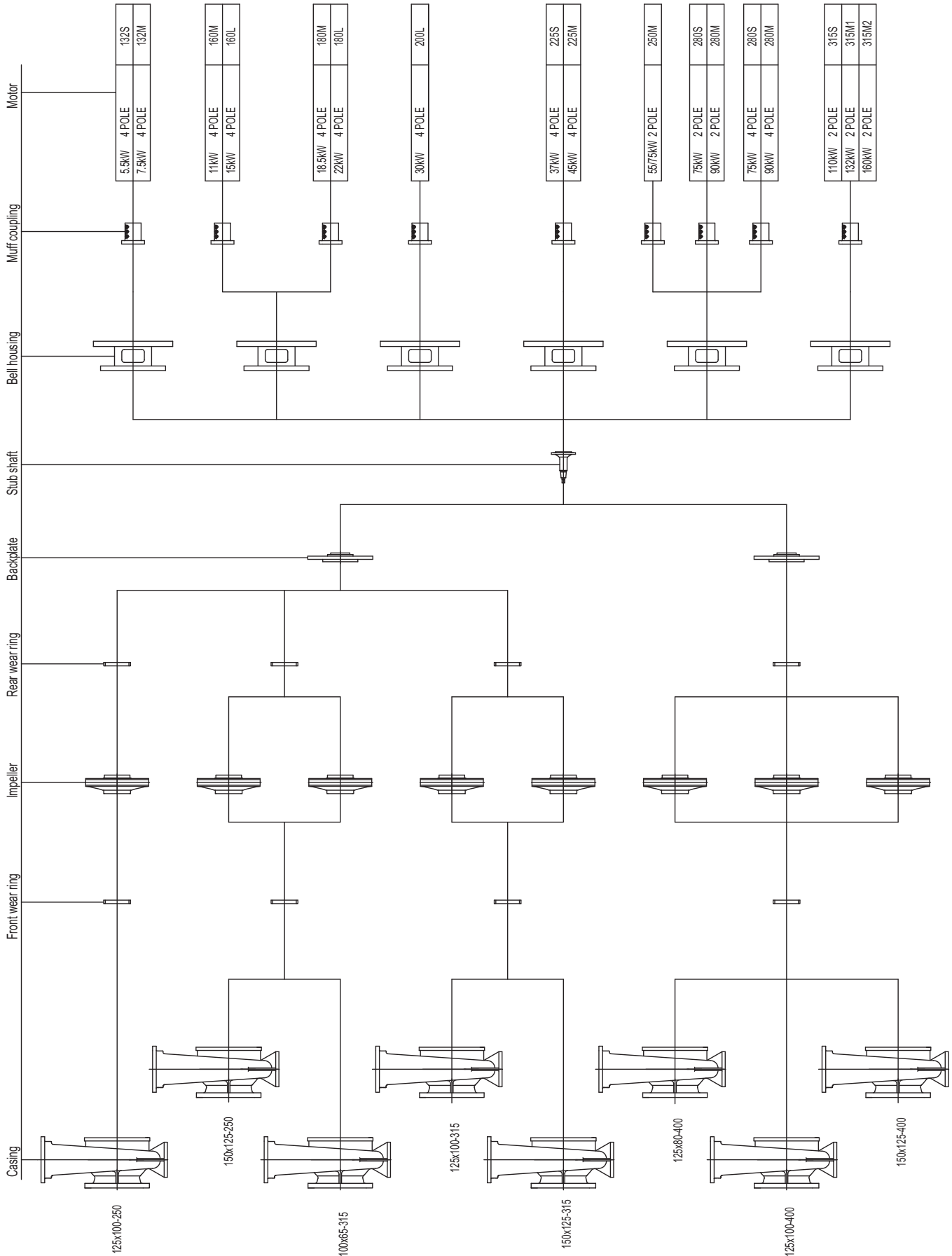
## CM Series Shaft Module No. 2

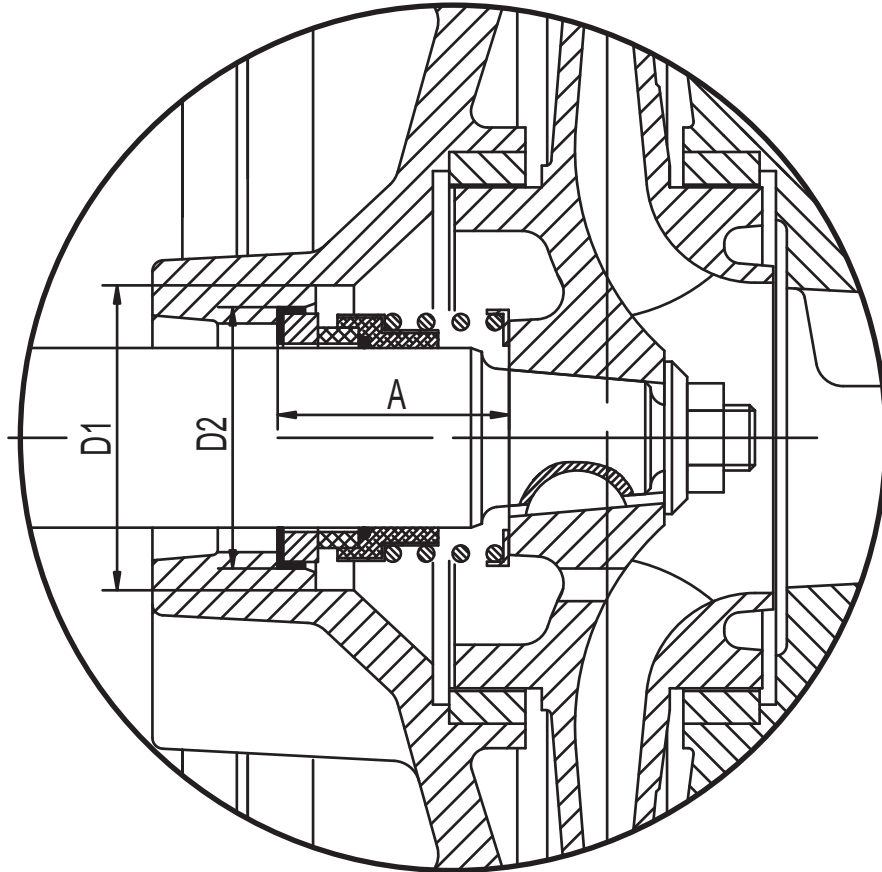


# TECHNICAL SPECIFICATIONS



## CM Series Shaft Module No. 3





Module	Seal size	D1	D2	A
No. 1	32	56	48	42.5
No. 2	43	68	61	45
No. 3	53	90	73	47.5
No. 4 *	60	92	80	52.5

All dimensions in mm, unless otherwise stated.

\*CM Series not available.

# TECHNICAL SPECIFICATIONS



## *Material Specifications*

<b>STANDARD CONSTRUCTION</b>				
Component	Standard Fitted Pump	Australian Standard	British Standard	ASTM Standard
Casing	Cast iron GG25	AS1830/T260	BS1452 - Gr260	A48-Class 35
Back Plate	Cast iron GG25	AS1830/T260	BS1452 - Gr260	A48-Class 35
Bearing Housing (CF)	Cast iron GG20	AS1830/T220	BS1452 - Gr220	A48-Class 30
Casing Wear Ring	Bronze	AS1565/836	BS1400 LG2	B584-C83600
Impeller	Bronze	AS1565/836	BS1400 LG2	B584-C83600
Impeller Key	Stainless steel 420	AS1444/420	BS970 - Gr420-S37	A276 - type 420
Impeller Lock Nut	Stainless steel 420	AS1444/420	BS970 - Gr420-S37	A276 - type 420
Shaft (CF) (CM)	Stainless steel 420 Stainless steel 316	AS1444/420 AS2074/H6B	BS970 - Gr420-S37 BS1504 - Gr316	A276 - type 420 A351-CF-8M

<b>OPTIONAL MATERIAL CONSTRUCTION</b>				
Component	Optional Materials	Australian Standard	British Standard	ASTM Standard
Casing	Ductile iron Stainless steel 316 Stainless steel 2205	AS 1831/400 AS 2074/H6B	BS2789-Gr500/7 BS1504-Gr316	A536-84 70-50-05 A351-CF-8M
Back Plate	Ductile iron Stainless steel 316 Stainless steel 2205	AS 1831 AS 2074/H6B	BS2789-Gr500/7 BS1504-Gr316	A536-84 70-50-05 A351-CF-8M
Casing Wear Ring	Stainless steel 316	AS 2074/H6B	BS1504-Gr316	A351-CF-8M
Impeller	Stainless steel 316	AS 2074/H6B	BS1504-Gr316	A351-CF-8M
Shaft (CF)	Stainless steel 316 Stainless steel 2205	AS 1444/316	BS970-Gr316-S16	A276 type 316

Other materials available upon request, please contact Davey.









Visit Davey on-line for further information  
[davey.com.au](http://davey.com.au)

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Note: This literature is not a complete guide to product usage. Further information is available from your Davey Customer Service Centre and from the relevant product Installation and Operating Instructions.  
Information & specifications subject to change without notice.

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**WATER PRODUCTS**

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