MEI-Efficiency Charts

NL-EN-DE-FR

Productinformatie conform verordening (EU) Nr. 547/2012

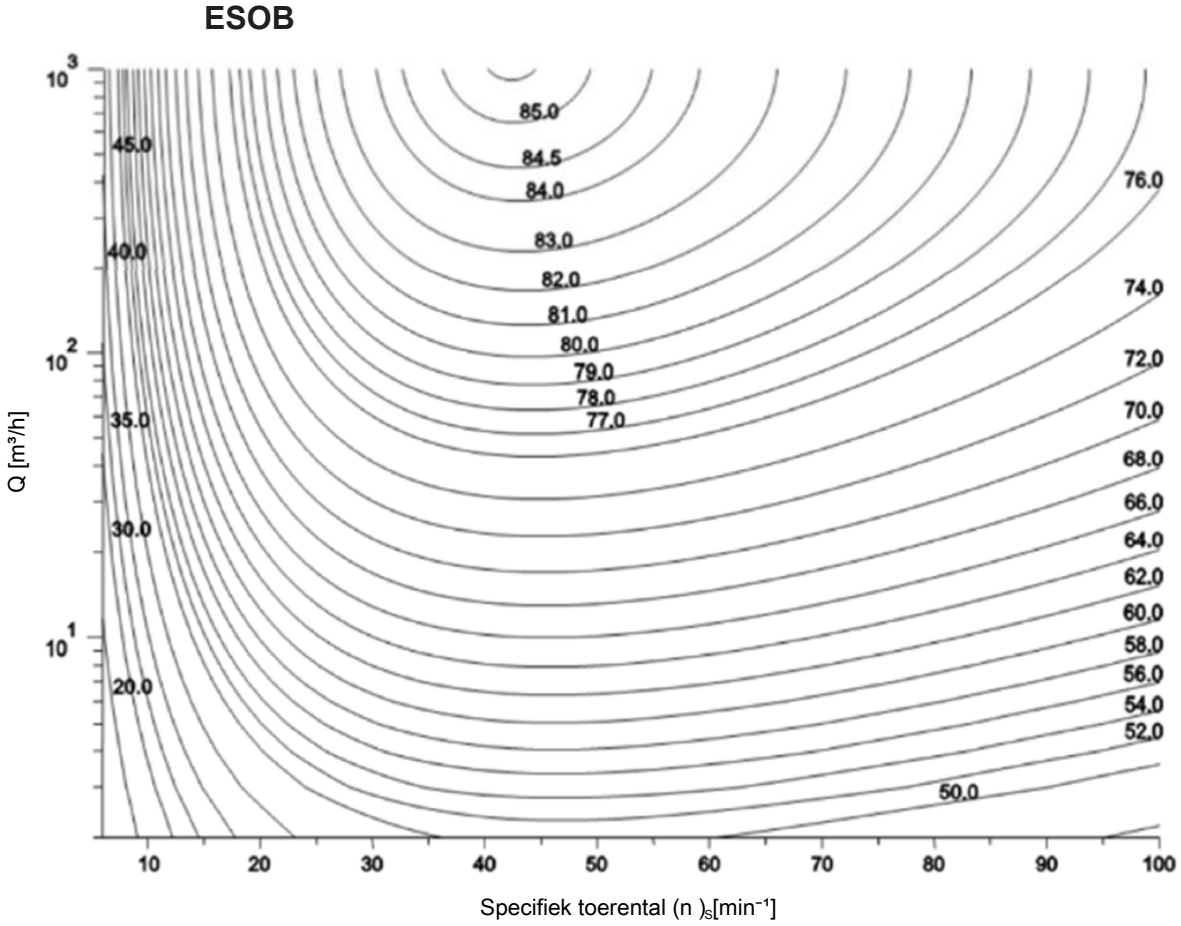
De verordening (EU) Nr. 547/2012 legt uniforme eisen aan de energie-efficiëntie van waterpompen in heel Europa vast. Het doel: het energieverbruik van moderne pompsystemen verlagen om zo de kosten en milieubelastingen aanzienlijk te verlagen. De specificaties gelden voor veel gangbare pomptypes, zowel voor afzonderlijk verkochte modellen als voor pompen die in andere producten zijn geïntegreerd.

De kern van de verordening is de zogenaamde referentiewaarden. Deze tonen aan welke efficiëntie technisch toonaangevende pompen vandaag de dag bereiken. Ze helpen klanten bij de oriëntering: ze maken de prestaties van moderne, efficiënt ontworpen pompen zichtbaar en maken een transparante vergelijking van verschillende producten mogelijk.

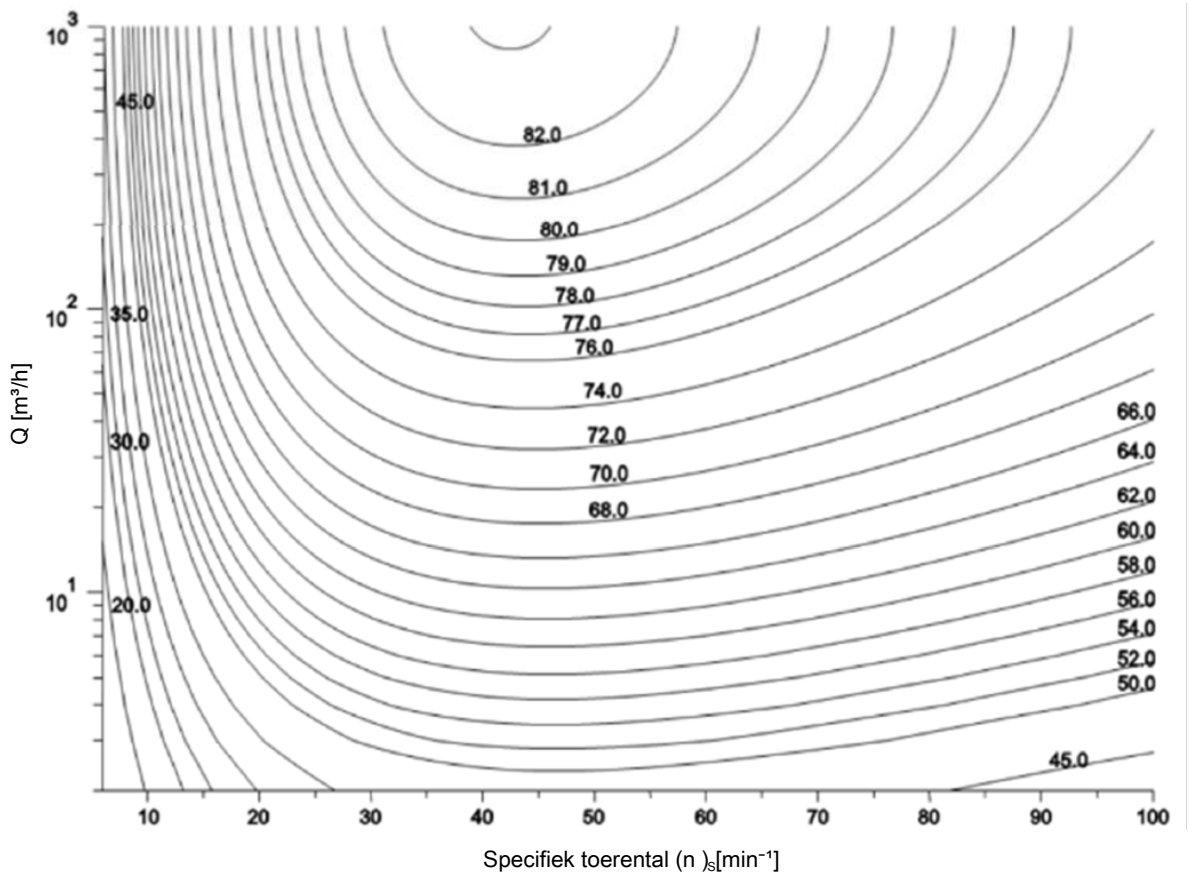
De wettelijk voorgeschreven referentiewaarden worden hieronder weergegeven. Deze omvatten de waarden voor de benchmark MEI 0.7, evenals voor de voorgeschreven minimale waarde voor MEI 0.4, elk afzonderlijk voor verschillende pomptypes.

Tab. 1: Referentiewaarde volgens bouwwijze

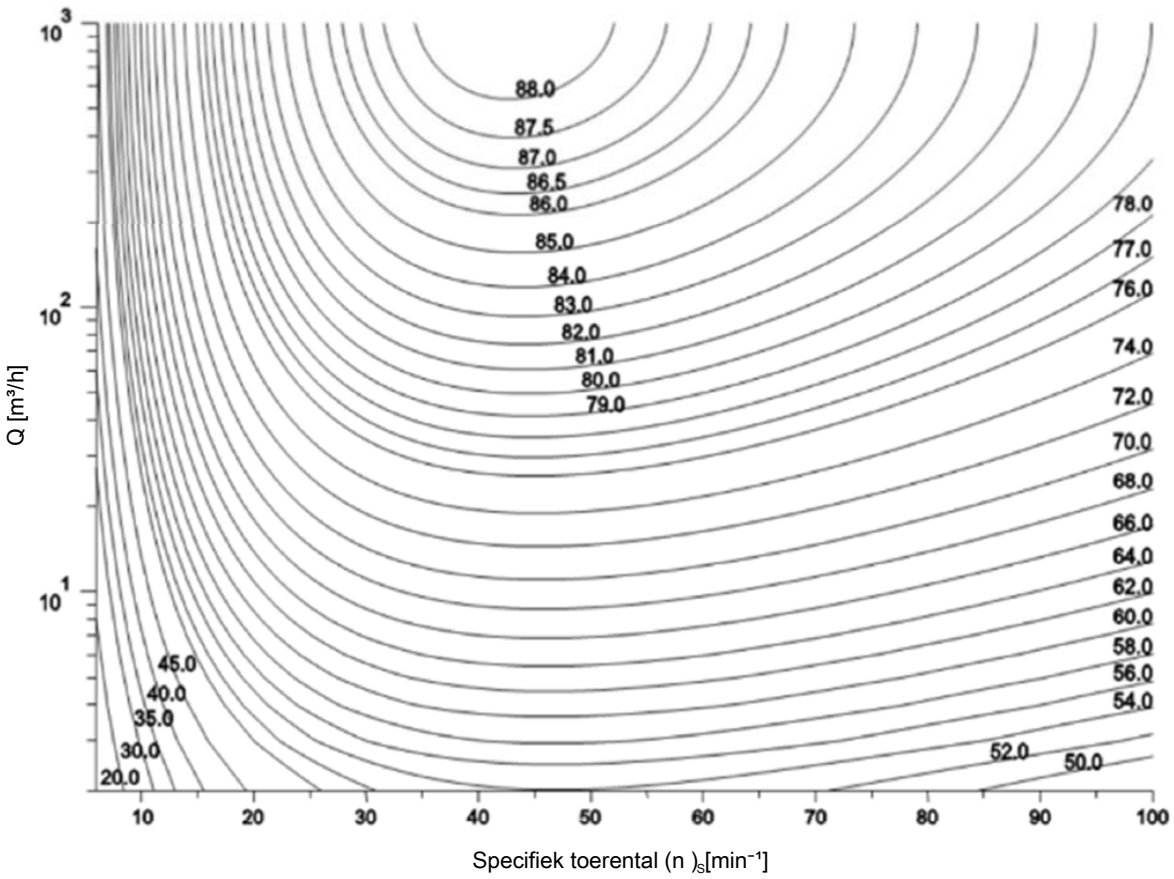
Constructie		**MEI 0,7**		**MEI 0,4**	
		1450 min^{-1}	**2900 min^{-1}**	**1450 min^{-1}**	**2900 min^{-1}**
ESO B	Waterpomp met axiale stromingsingang, eigen lager	[⇨ Afb. 3]	[⇨ Afb. 4]	[⇨ Afb. 1]	[⇨ Afb. 2]
ES-CC	Waterpomp met axiale stromingsingang, blokbouwwijze	[⇨ Afb. 7]	[⇨ Afb. 8]	[⇨ Afb. 5]	[⇨ Afb. 6]
ESC-Ci	Blok-waterpomp met axiale stromingsingang, inline uitvoering	[⇨ Afb. 11]	[⇨ Afb. 12]	[⇨ Afb. 9]	[⇨ Afb. 10]
MS-V	Meertraps verticale waterpomp	-	[⇨ Afb. 14]	-	[⇨ Afb. 13]
MSS	Meertraps dompelpomp	-	[⇨ Afb. 16]	-	[⇨ Afb. 15]



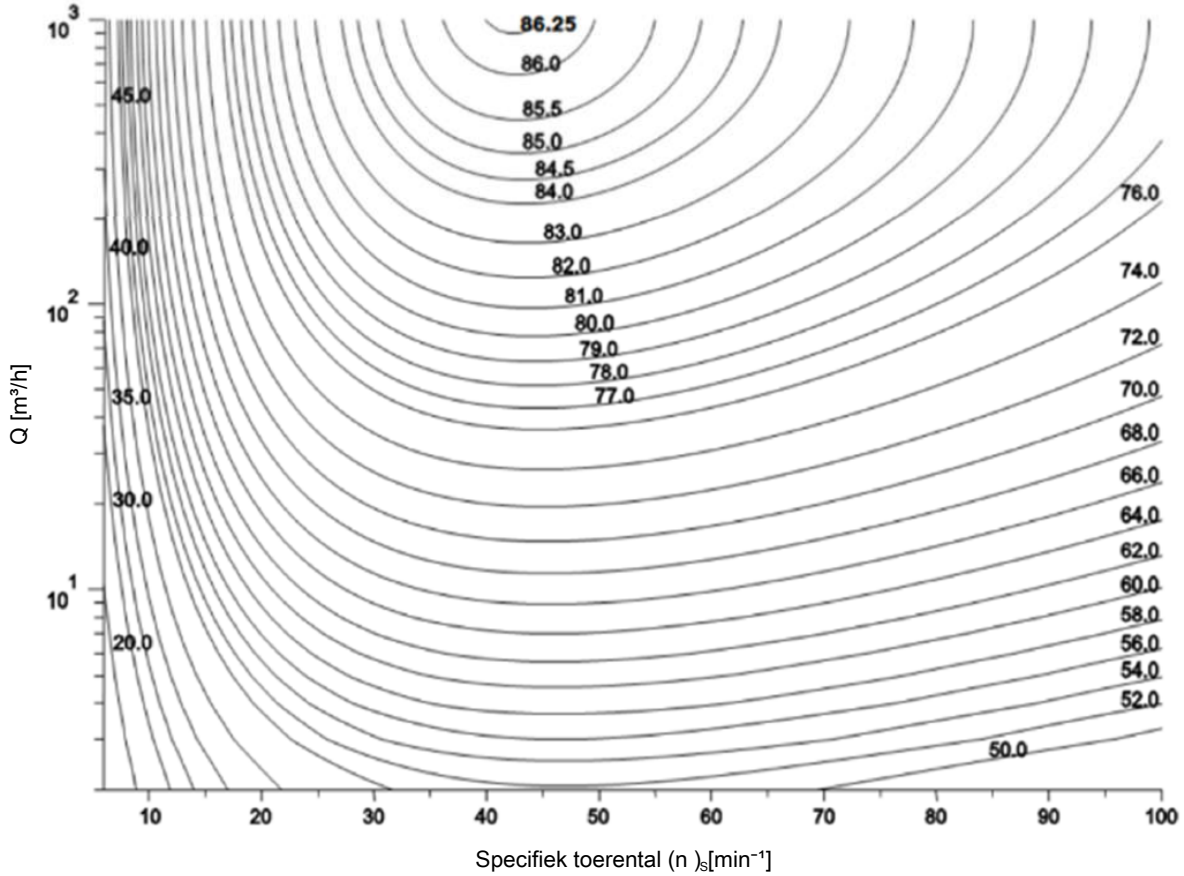
Afb. 1: ESOB, MEI 0,4, 1450 min⁻¹



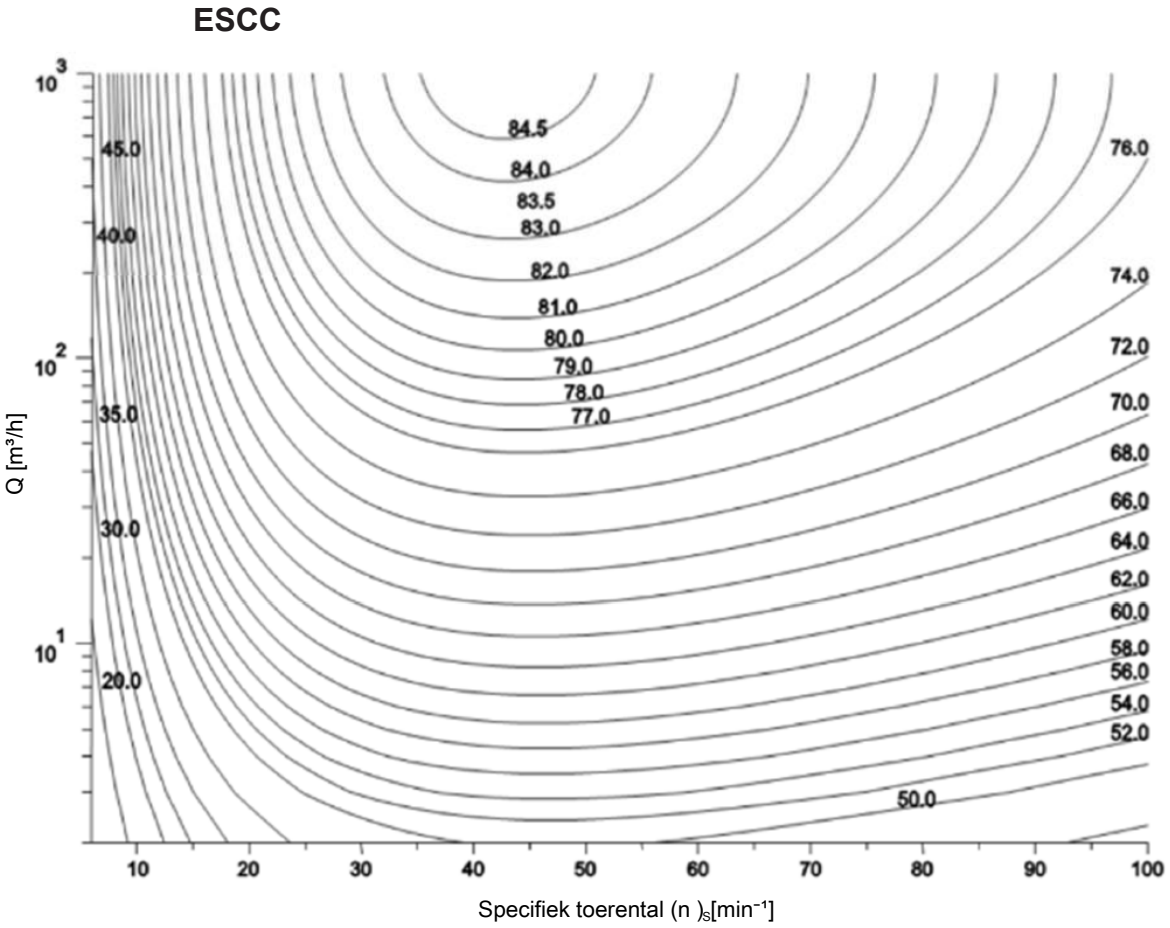
Afb. 2: ESOB, MEI 0,4, 2900 min⁻¹



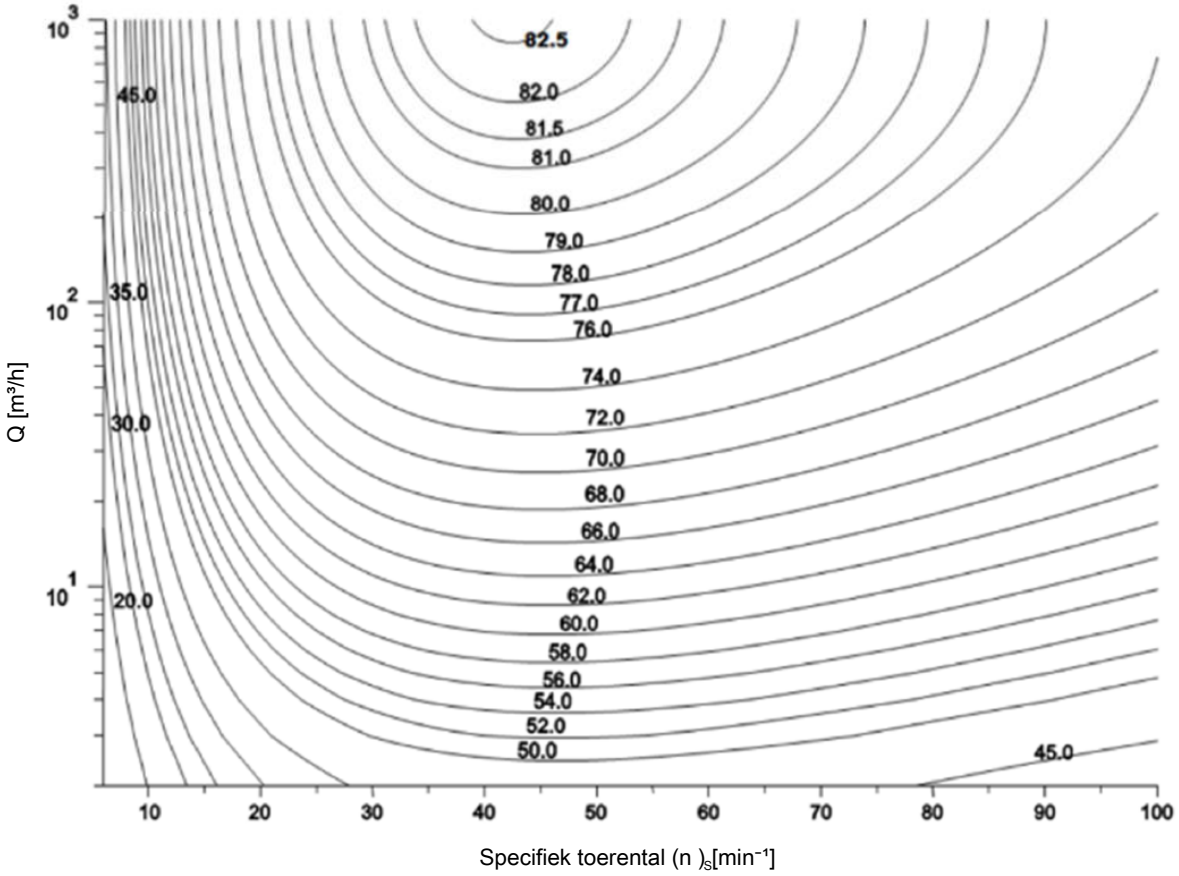
Afb. 3: ESOB, MEI 0,7, 1450 min⁻¹



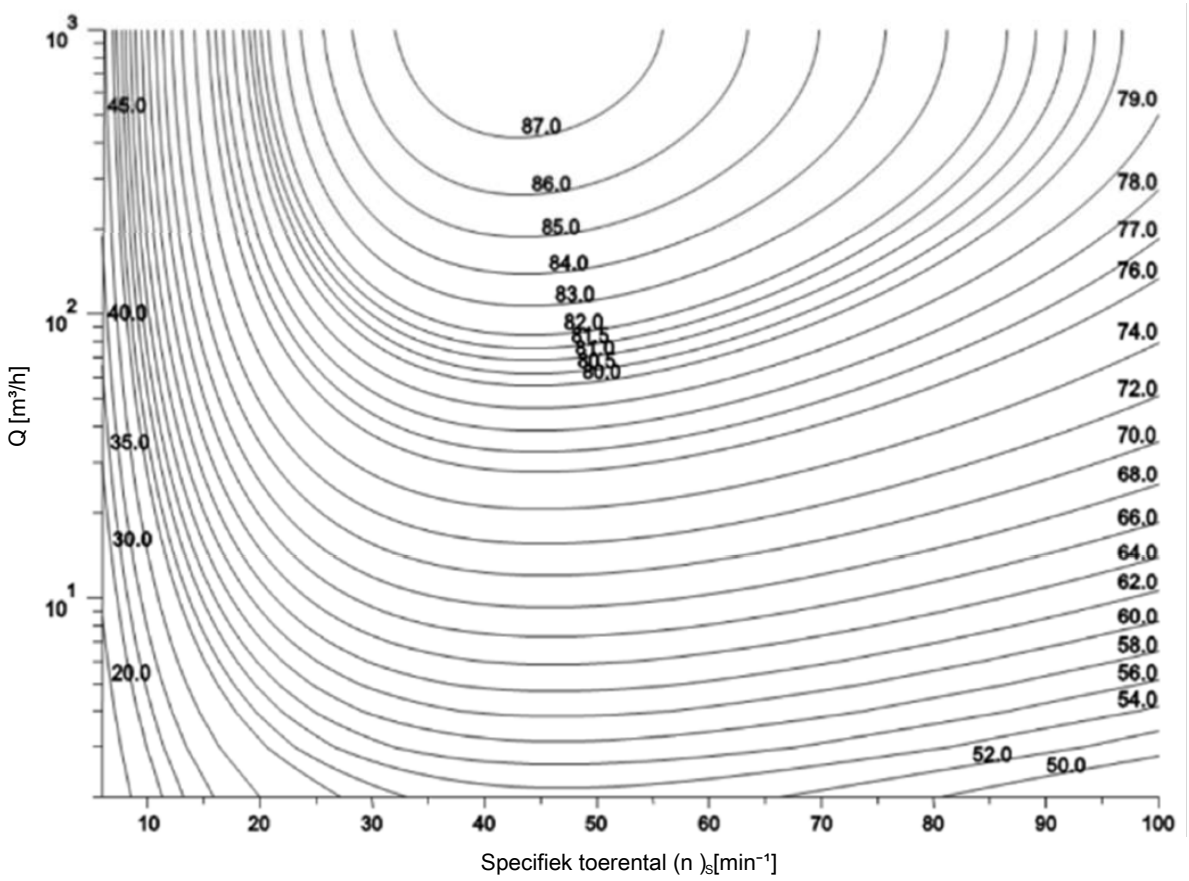
Afb. 4: ESOB, MEI 0,7, 2900 min⁻¹



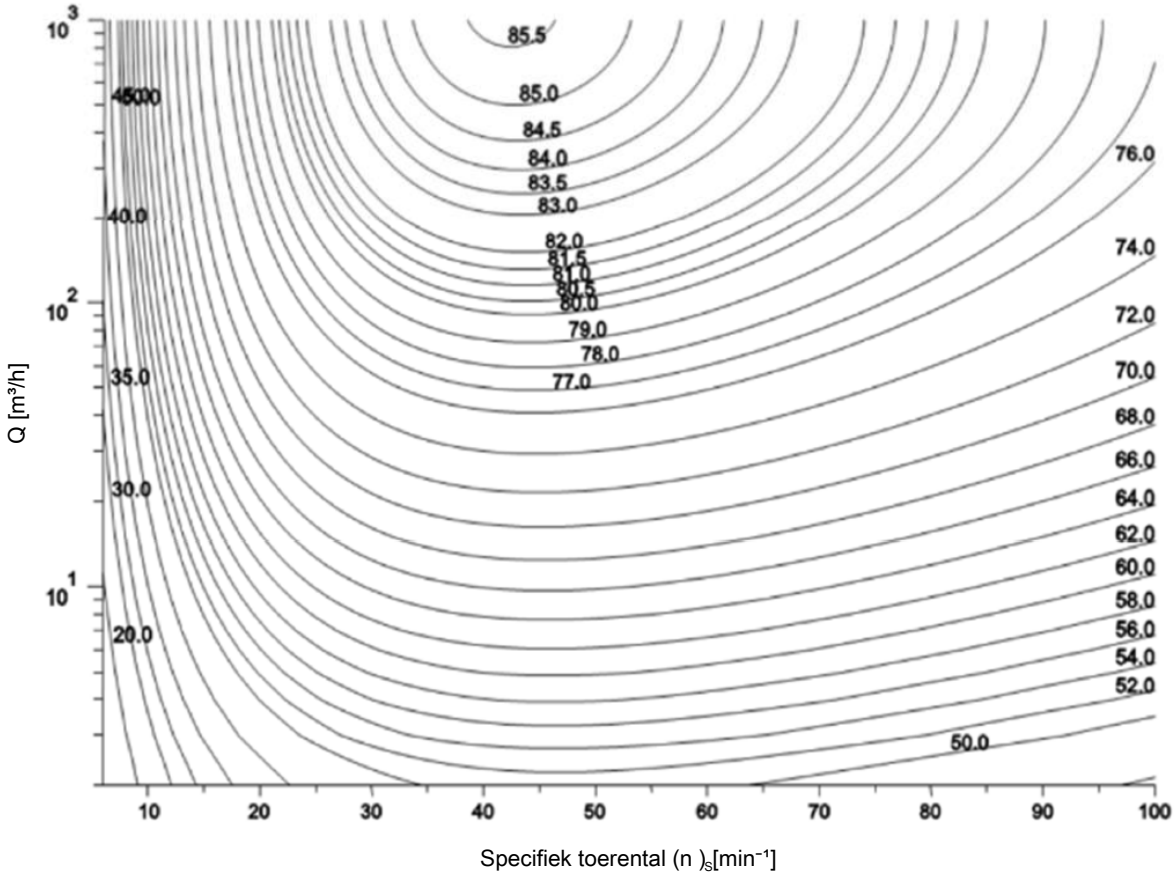
Afb. 5: ESCC, MEI 0,4, 1450 min⁻¹



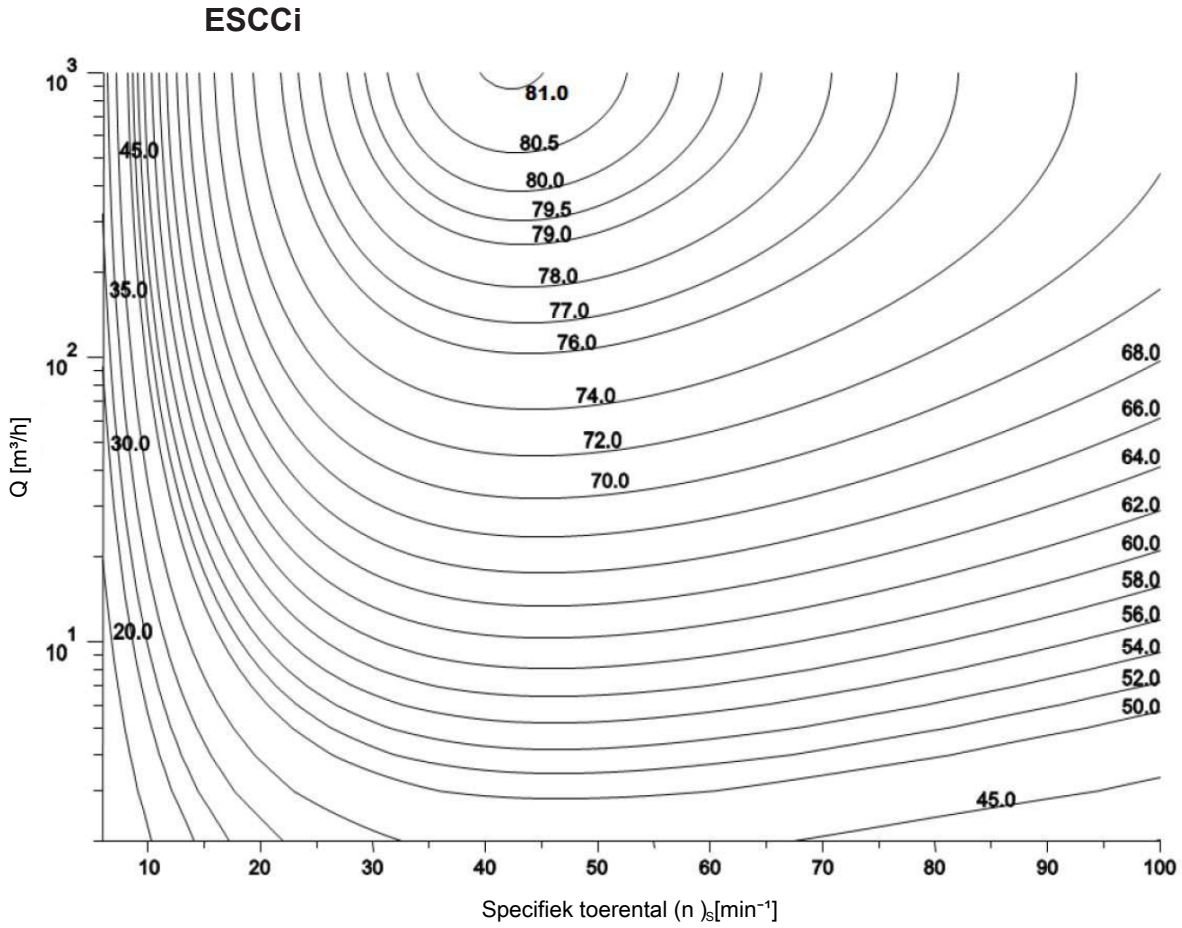
Afb. 6: ESCC, MEI 0,4, 2900 min⁻¹



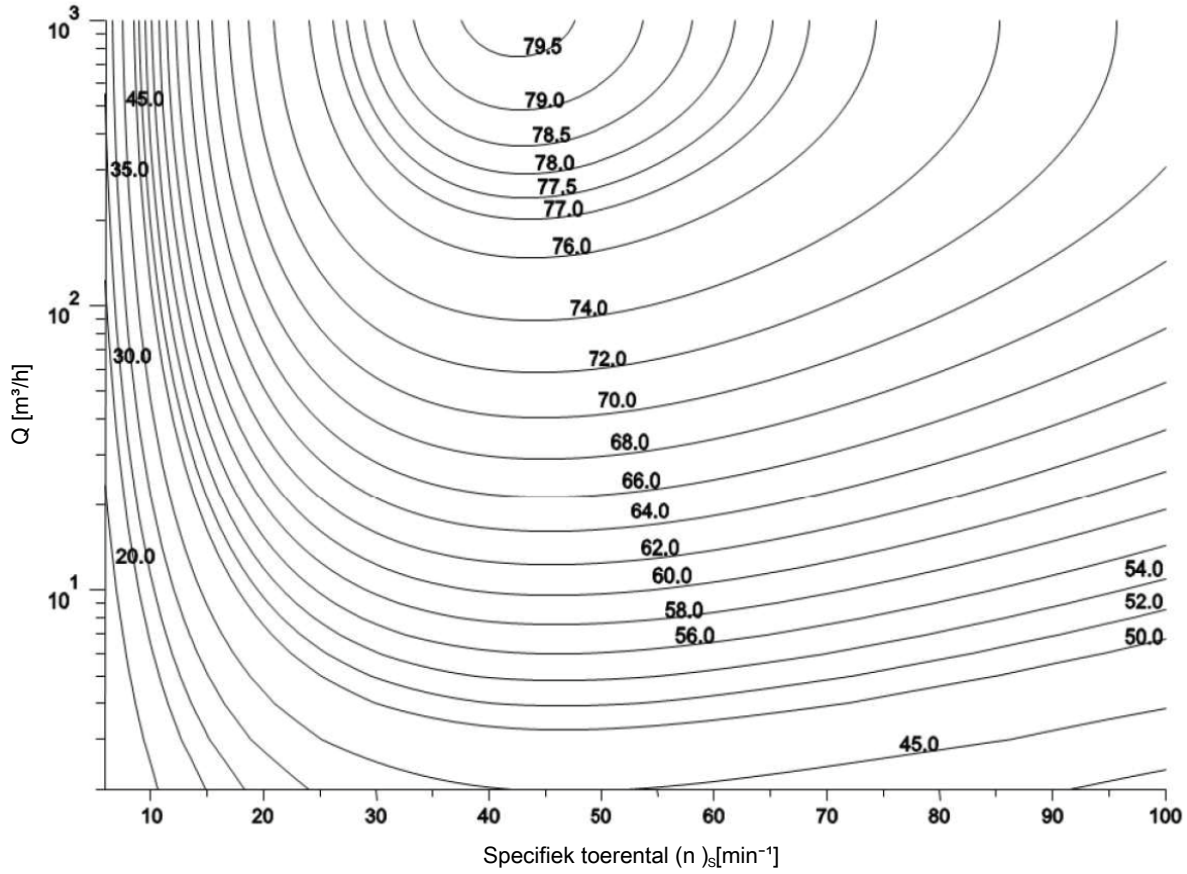
Afb. 7: ESCC, MEI 0,7, 1450 min⁻¹



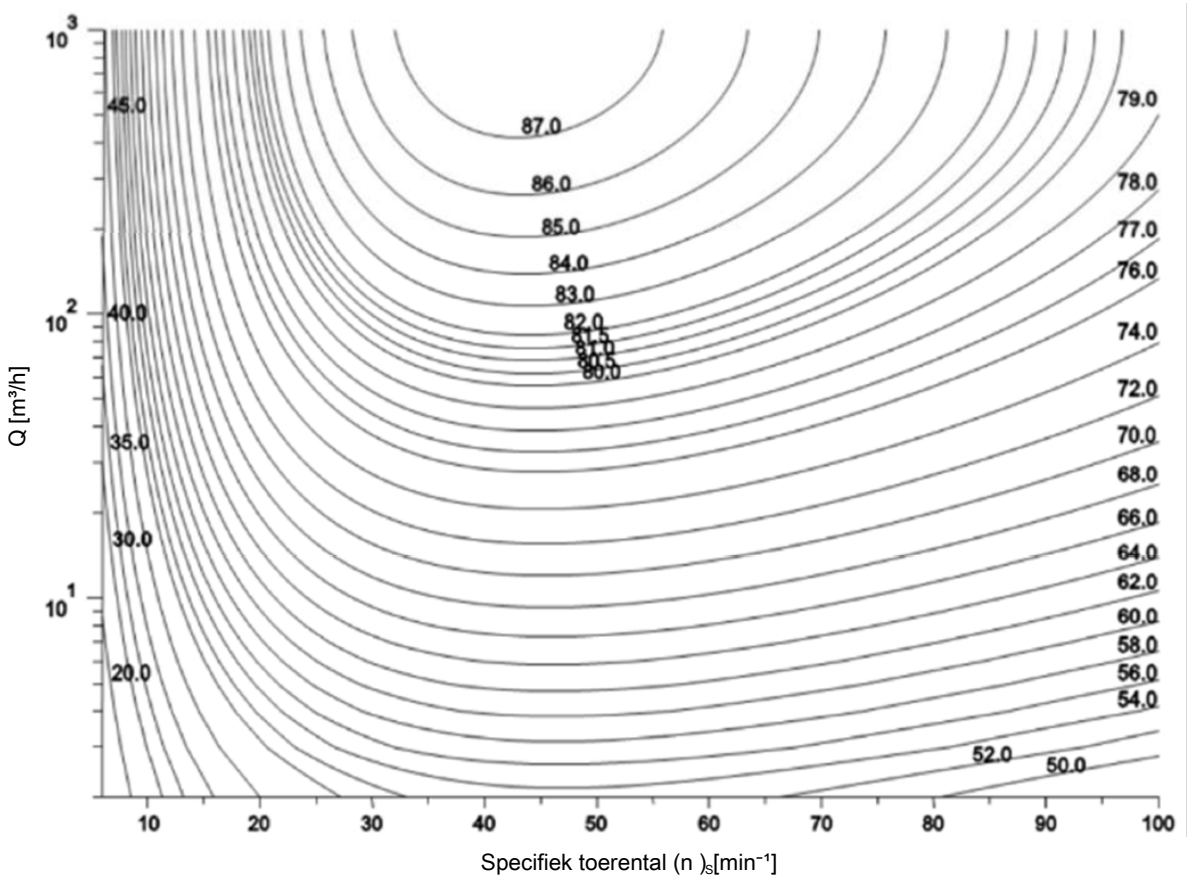
Afb. 8: ESCC, MEI 0,7, 2900 min⁻¹



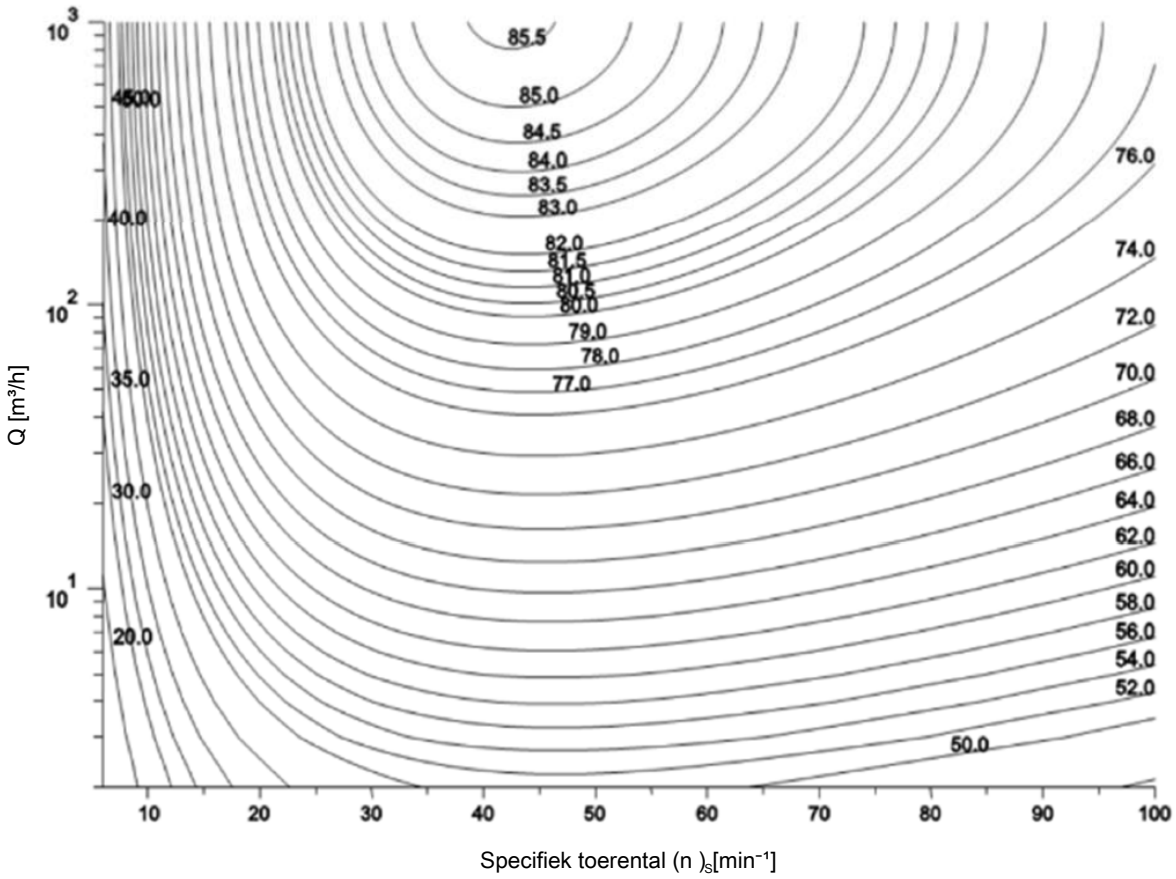
Afb. 9: ESCCi, MEI 0,4, 1450 min⁻¹



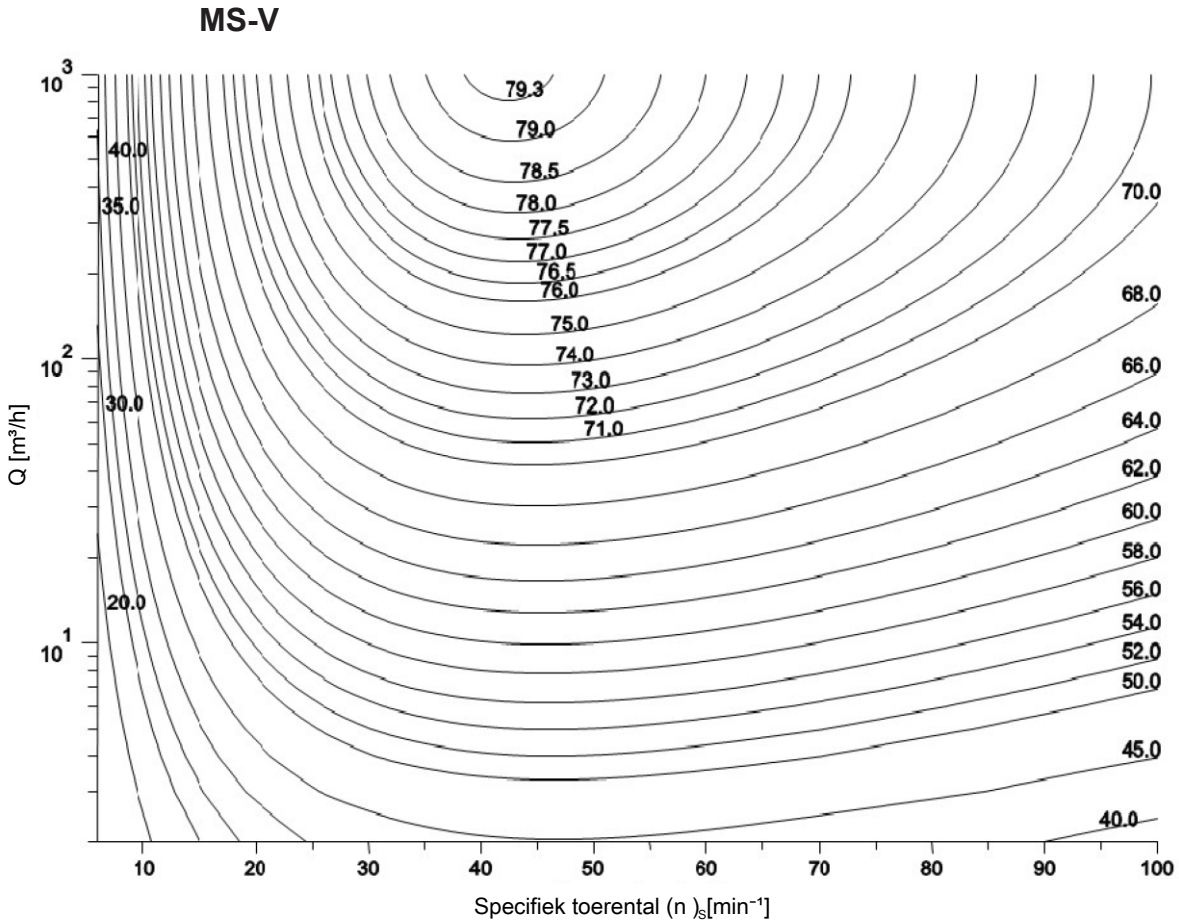
Afb. 10: ESCCi, MEI 0,4, 2900 min⁻¹



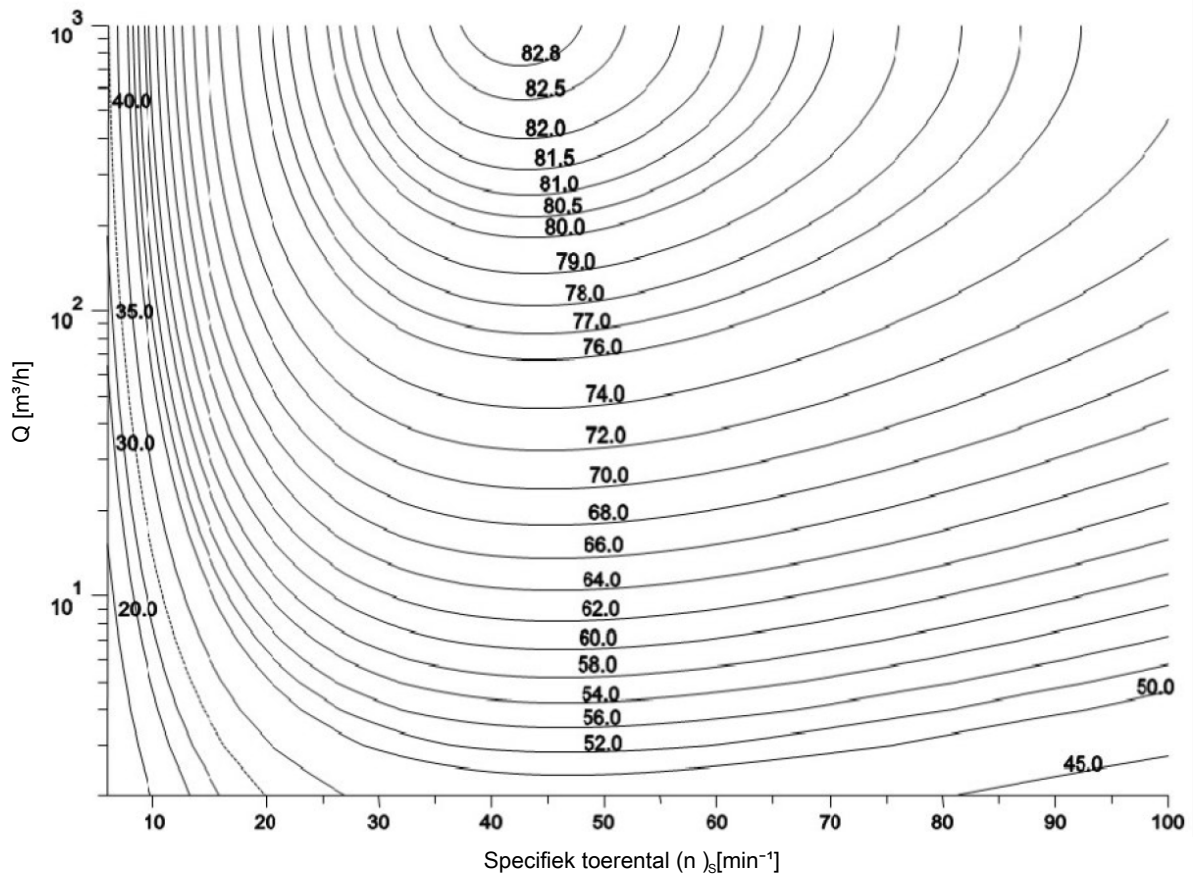
Afb. 11: ESCC, MEI 0,7, 1450 min⁻¹



Afb. 12: ESCC, MEI 0,7, 2900 min⁻¹

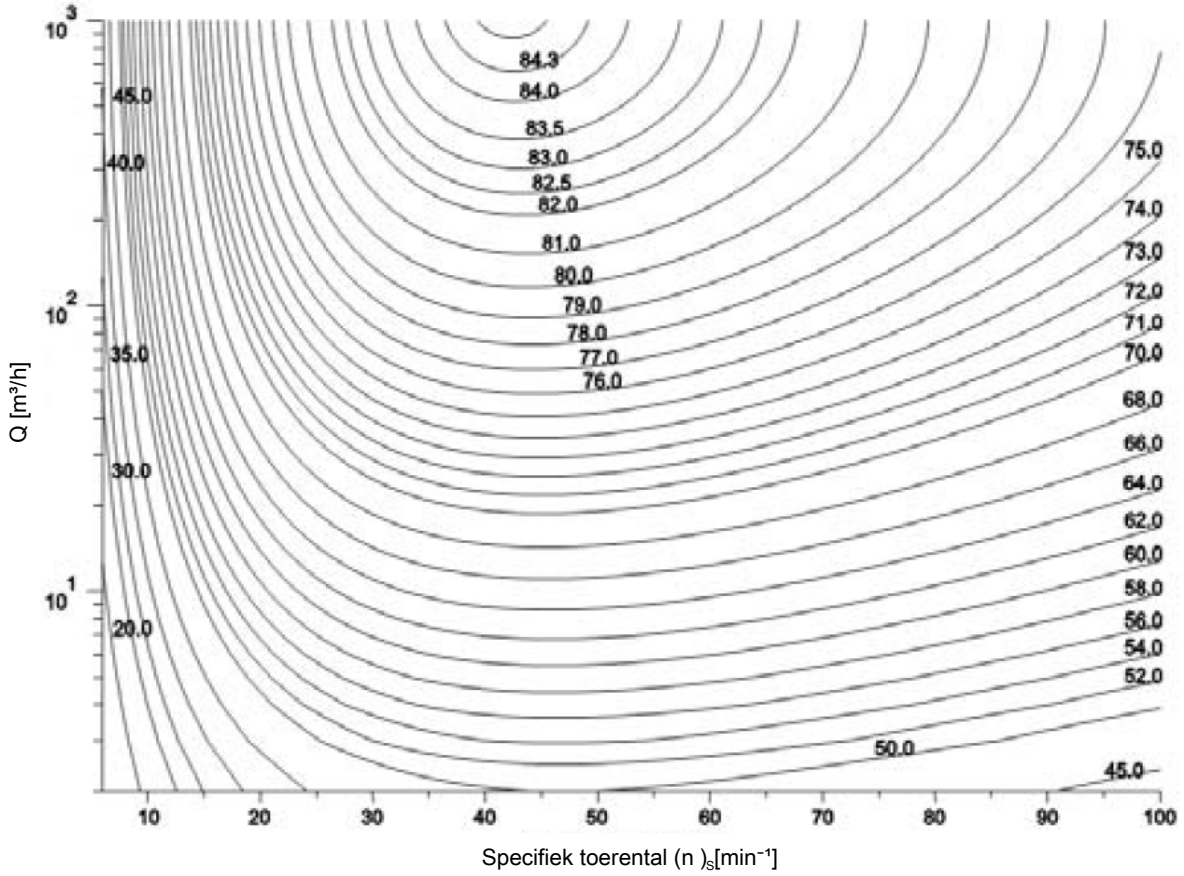


Afb. 13: MS-V, MEI 0,4, 2900 min⁻¹

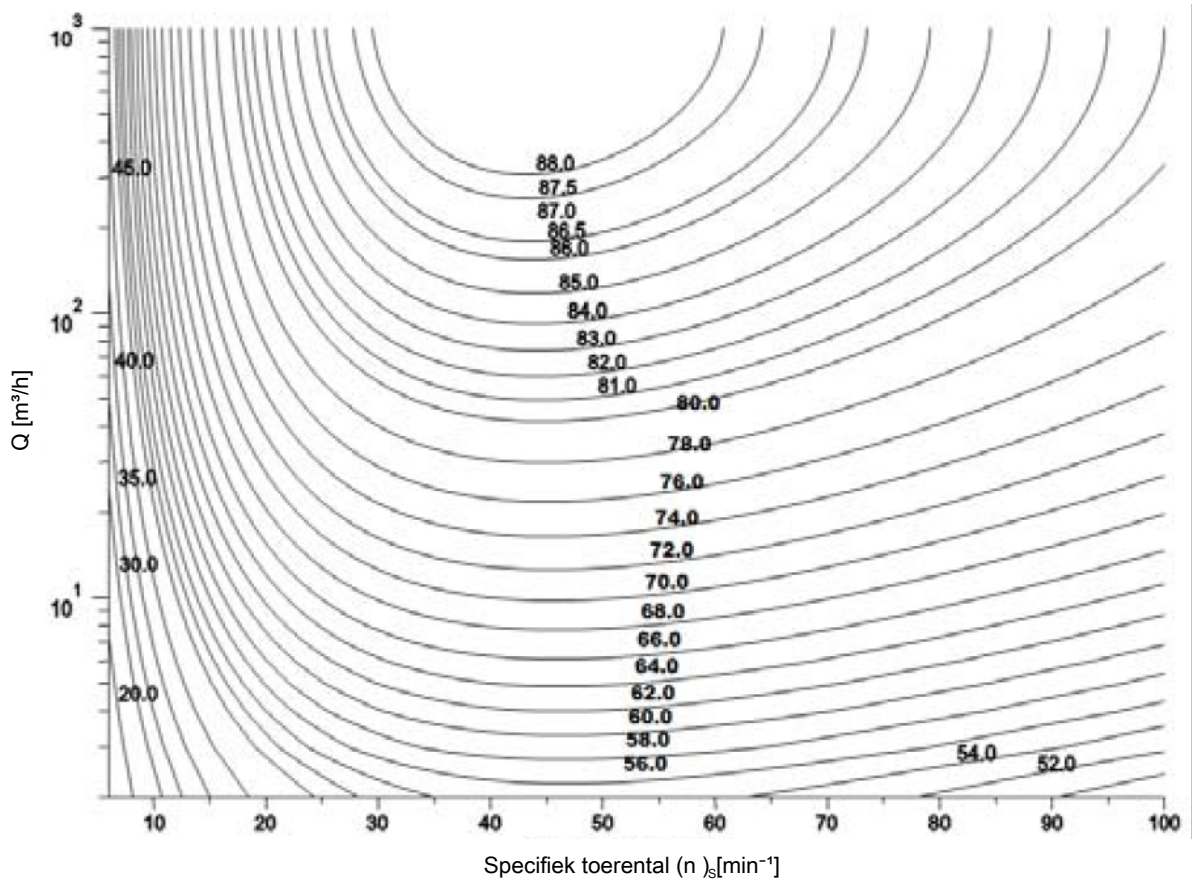


Afb. 14: MS-V, MEI 0,7, 2900 min⁻¹

MS-S



Afb. 15: MS-S, MEI 0,4, 2900 min⁻¹



Afb. 16: MS-S, MEI 0,7, 2900 min⁻¹

Product information as per Regulation (EU) No. 547/2012

Regulation (EU) No. 547/2012 stipulates uniform requirements for the energy efficiency of water pumps applicable across Europe. It aims to reduce the energy consumption of modern pump systems, thereby significantly cutting costs and reducing environmental impact. The requirements apply to many common pump types, including models sold individually and pumps that are integrated into other products.

Central to the regulation are the so-called reference values. They demonstrate the efficiency levels that state-of-the-art pumps can achieve today. They function as a customer guide: By highlighting the performance levels offered by modern pumps designed for efficiency, they provide a transparent basis for comparing different products.

The statutory reference values are specified below. They include the values for the MEI 0.7 benchmark and for the statutory minimum value of MEI 0.4, for each pump type separately.

Table 1: Reference values according to design

Design		MEI 0.7		MEI 0.4	
		1450 rpm	2900 rpm	1450 rpm	2900 rpm
ESOB	Water pump with axial fluid inlet including bearings	[⇨ Fig. 3]	[⇨ Fig. 4]	[⇨ Fig. 1]	[⇨ Fig. 2]
ESCC	Water pump with axial fluid inlet, close-coupled design	[⇨ Fig. 7]	[⇨ Fig. 8]	[⇨ Fig. 5]	[⇨ Fig. 6]
ES-CCi	Close-coupled water pump with axial fluid inlet, in-line design	[⇨ Fig. 11]	[⇨ Fig. 12]	[⇨ Fig. 9]	[⇨ Fig. 10]
MS-V	Multistage vertical water pump	-	[⇨ Fig. 14]	-	[⇨ Fig. 13]
MSS	Multistage submersible water pump	-	[⇨ Fig. 16]	-	[⇨ Fig. 15]

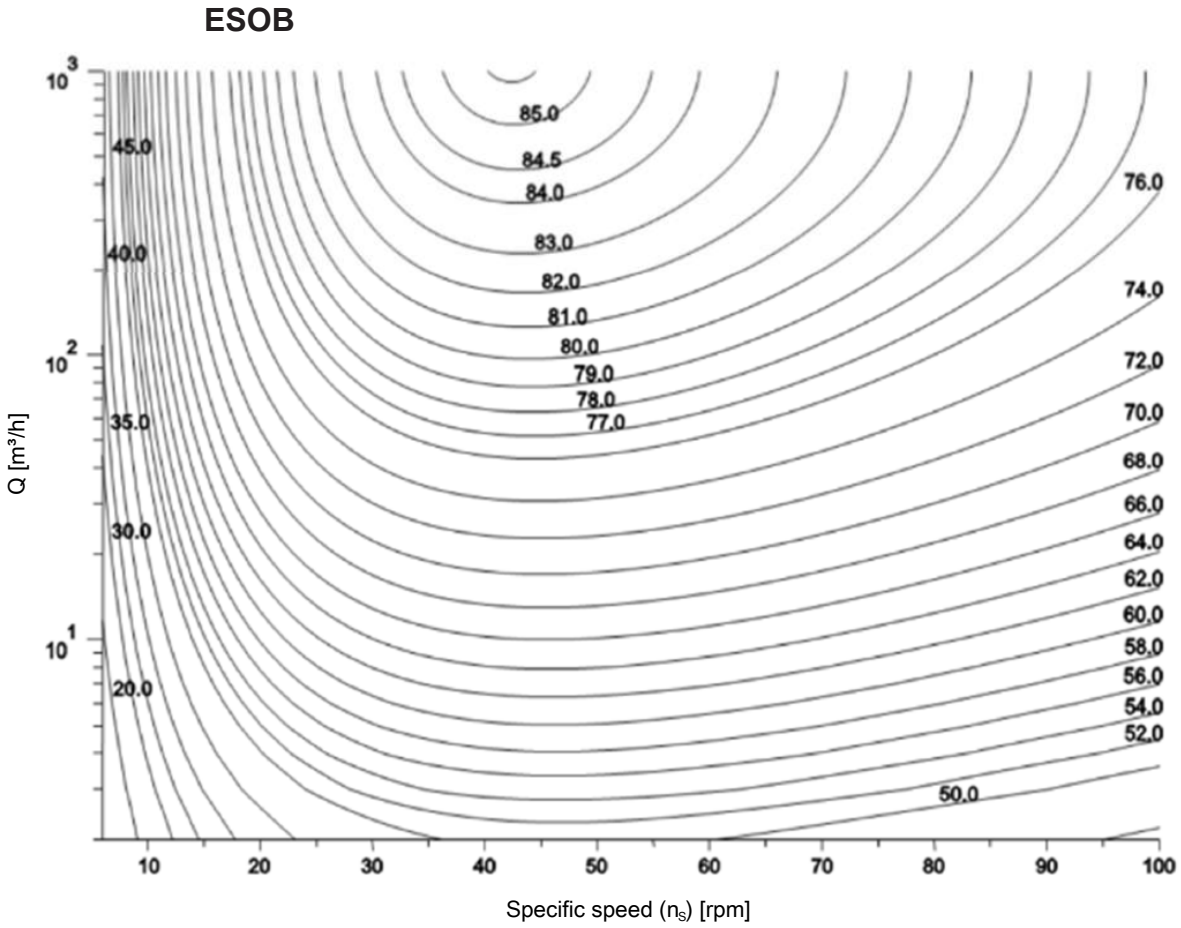


Fig. 1: ESOB, MEI 0.4, 1450 rpm

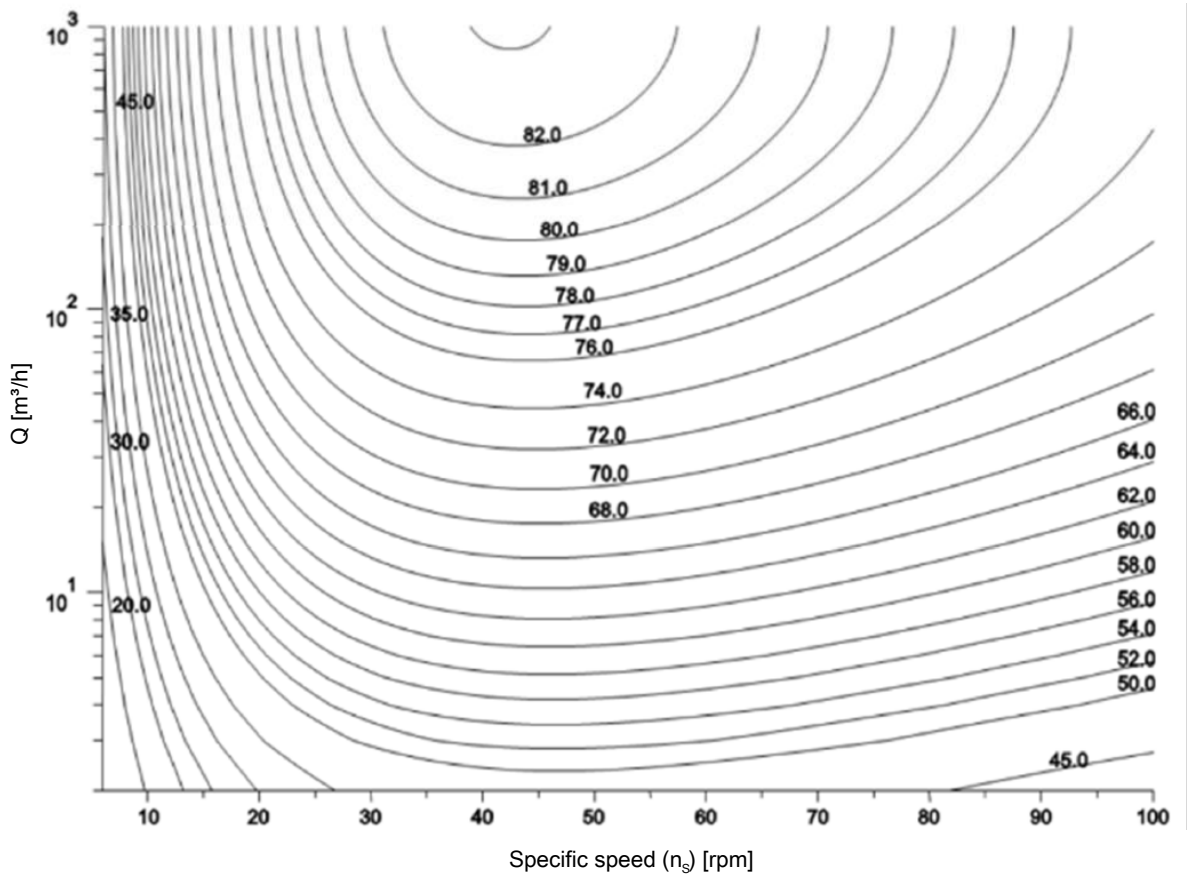


Fig. 2: ESOB, MEI 0.4, 2900 rpm

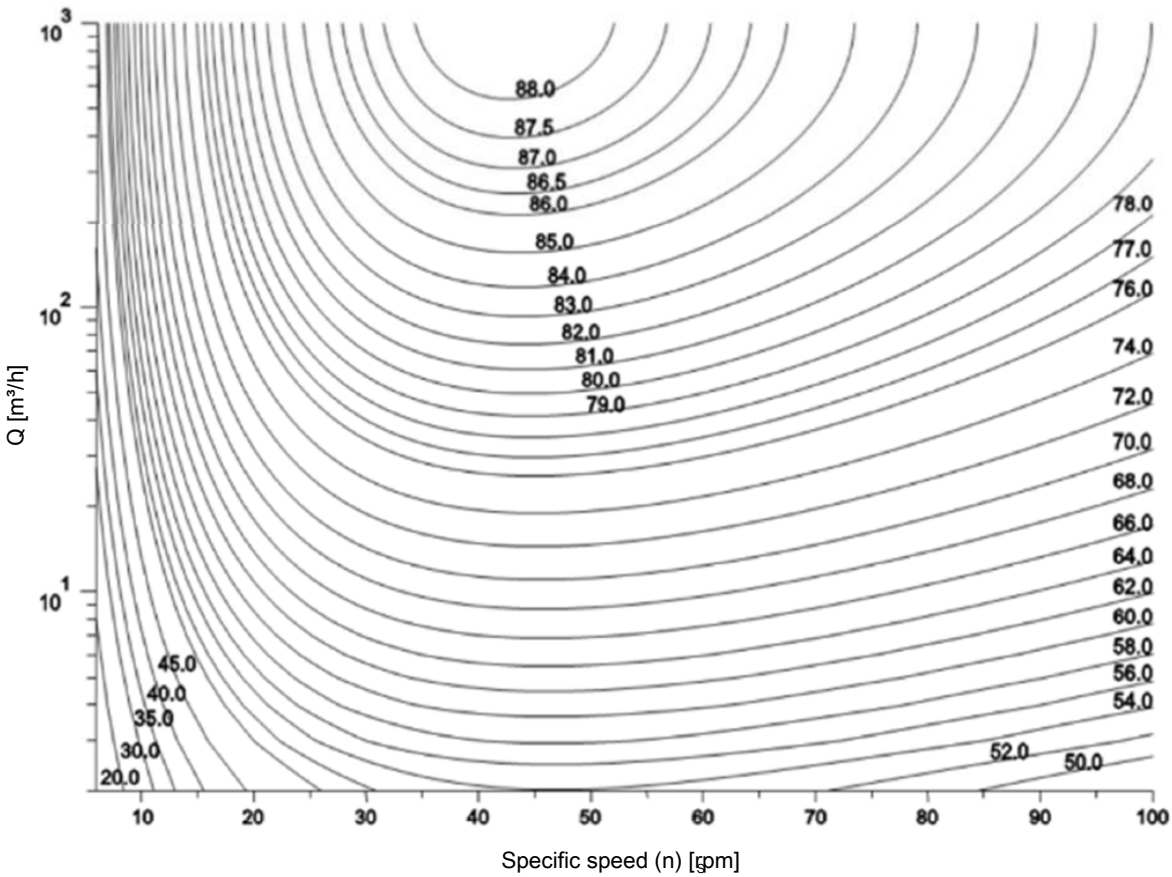


Fig. 3: ESOB, MEI 0.7, 1450 rpm

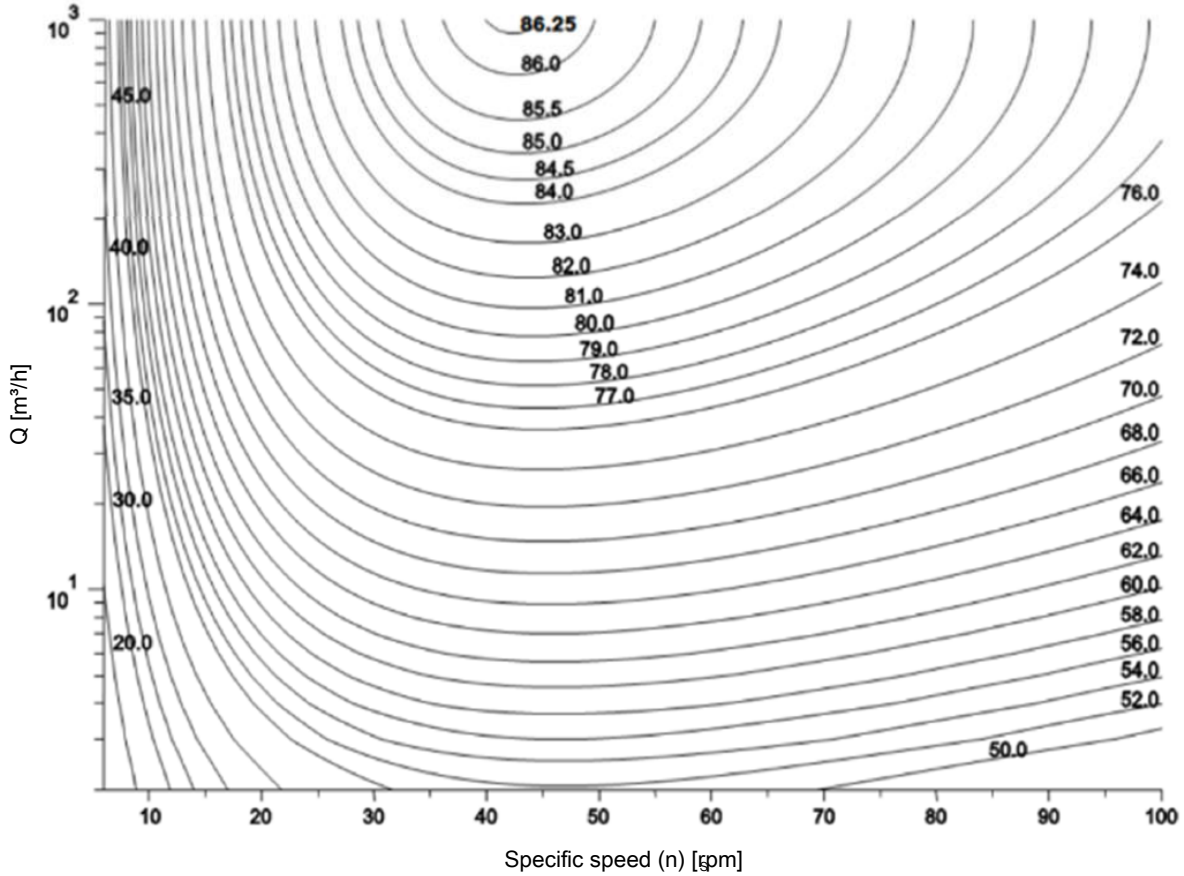


Fig. 4: ESOB, MEI 0.7, 2900 rpm

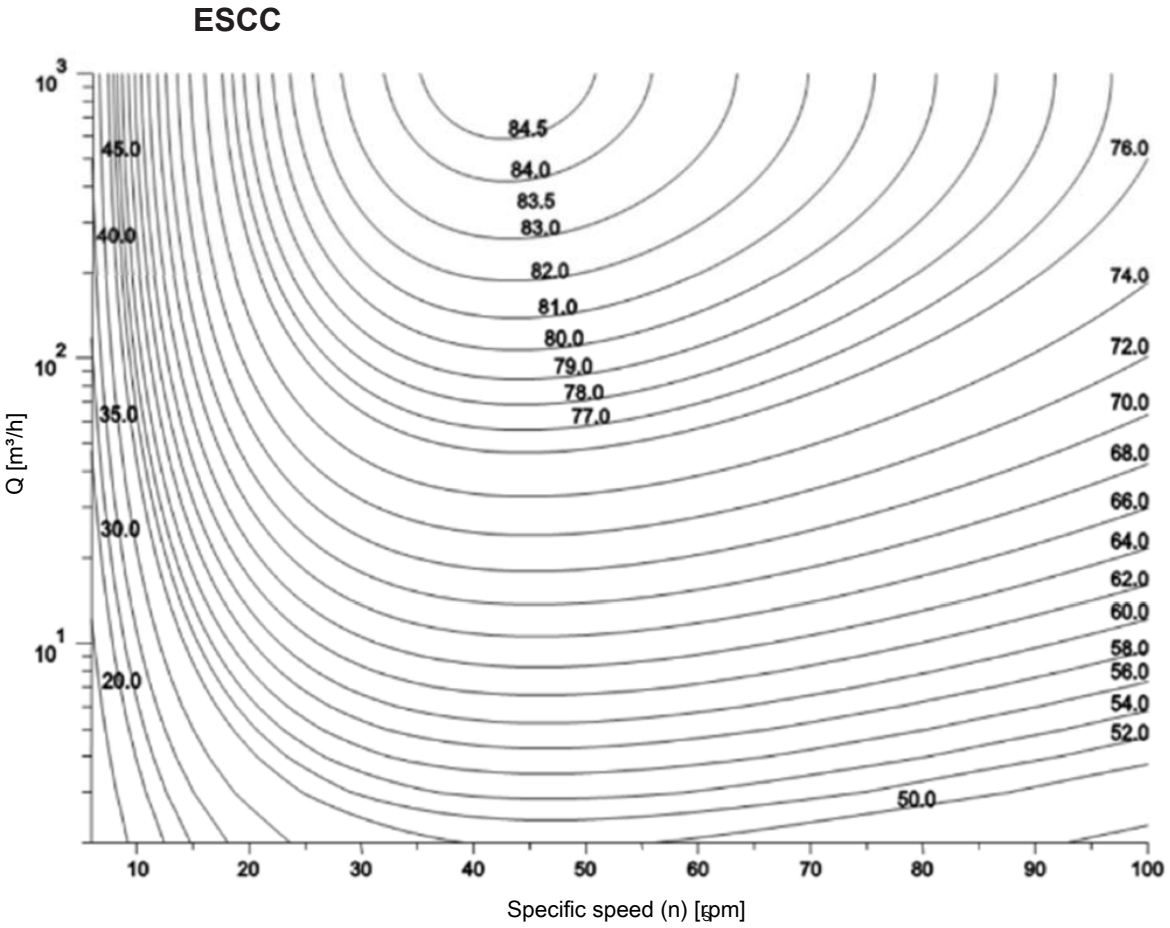


Fig. 5: ESCC, MEI 0.4, 1450 rpm

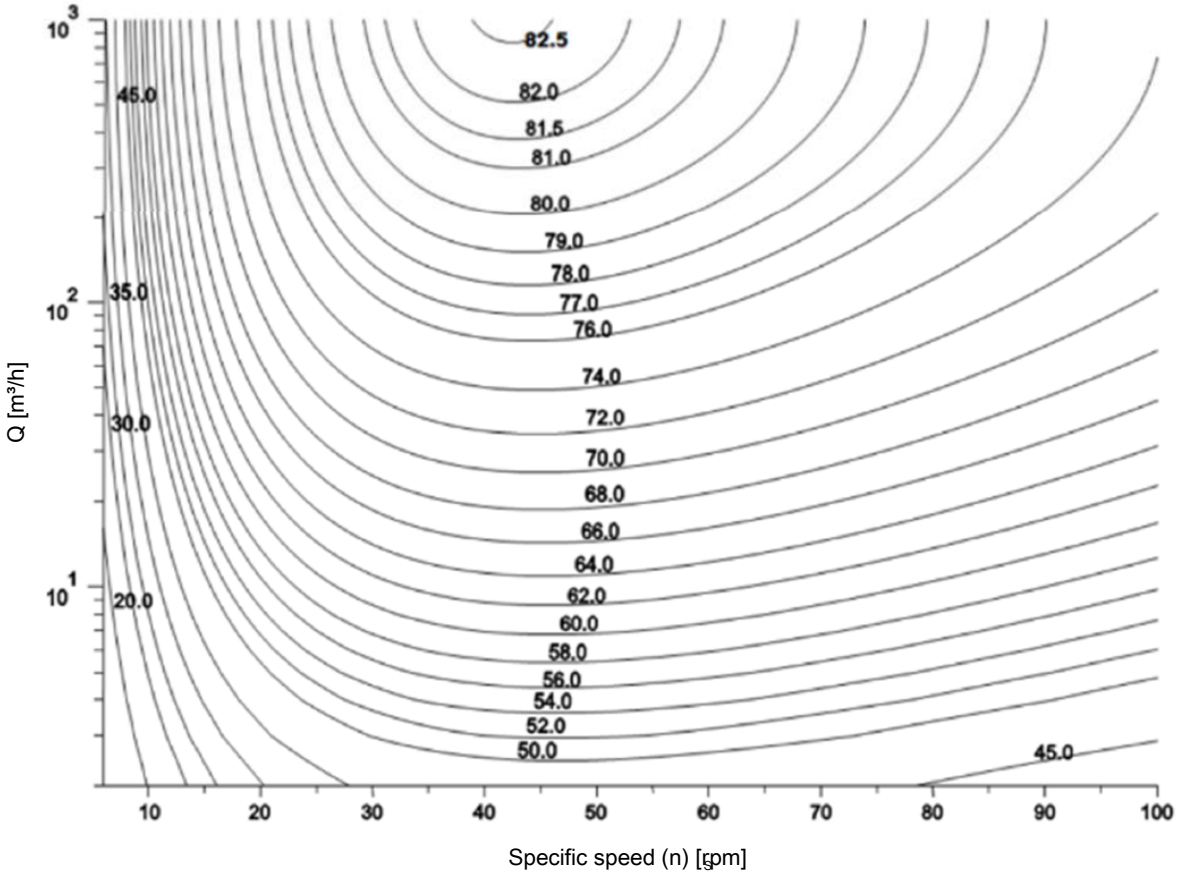


Fig. 6: ESCC, MEI 0.4, 2900 rpm

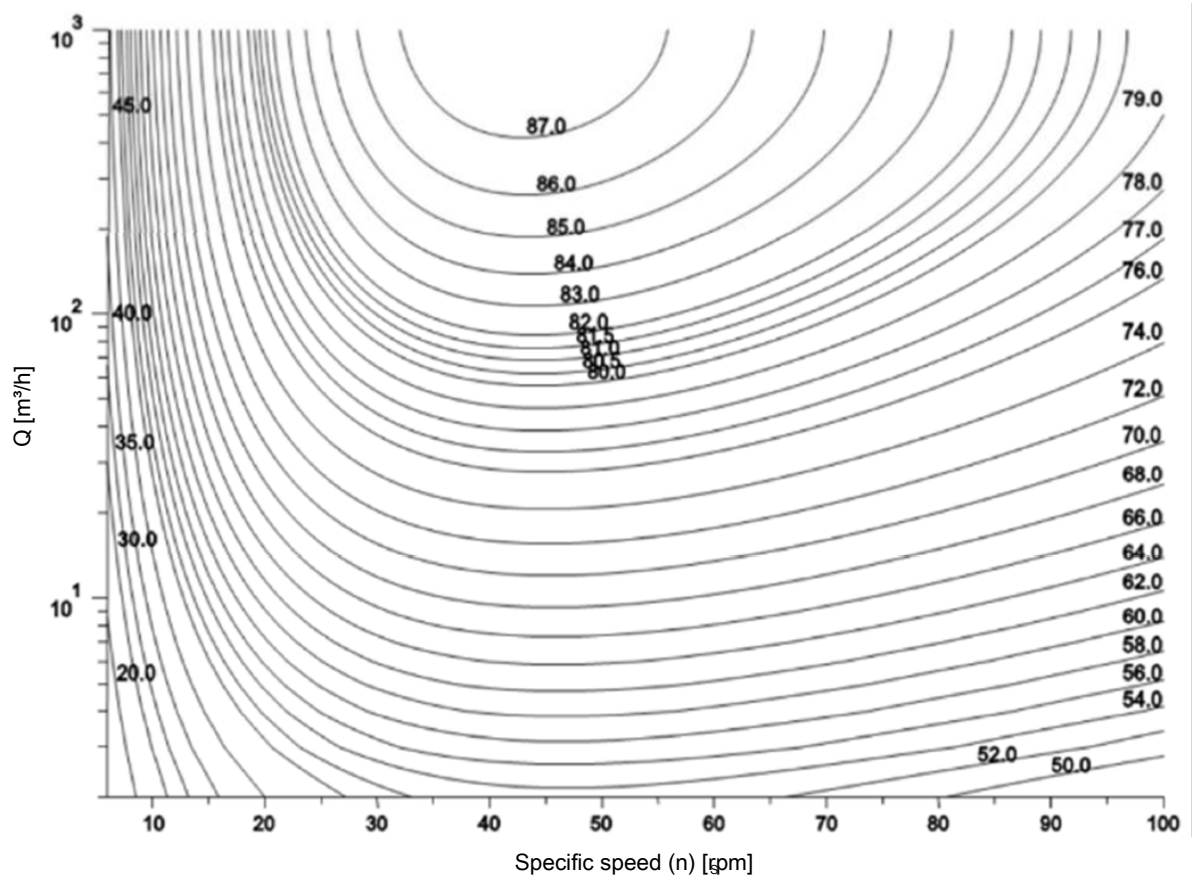


Fig. 7: ESCC, MEI 0.7, 1450 rpm

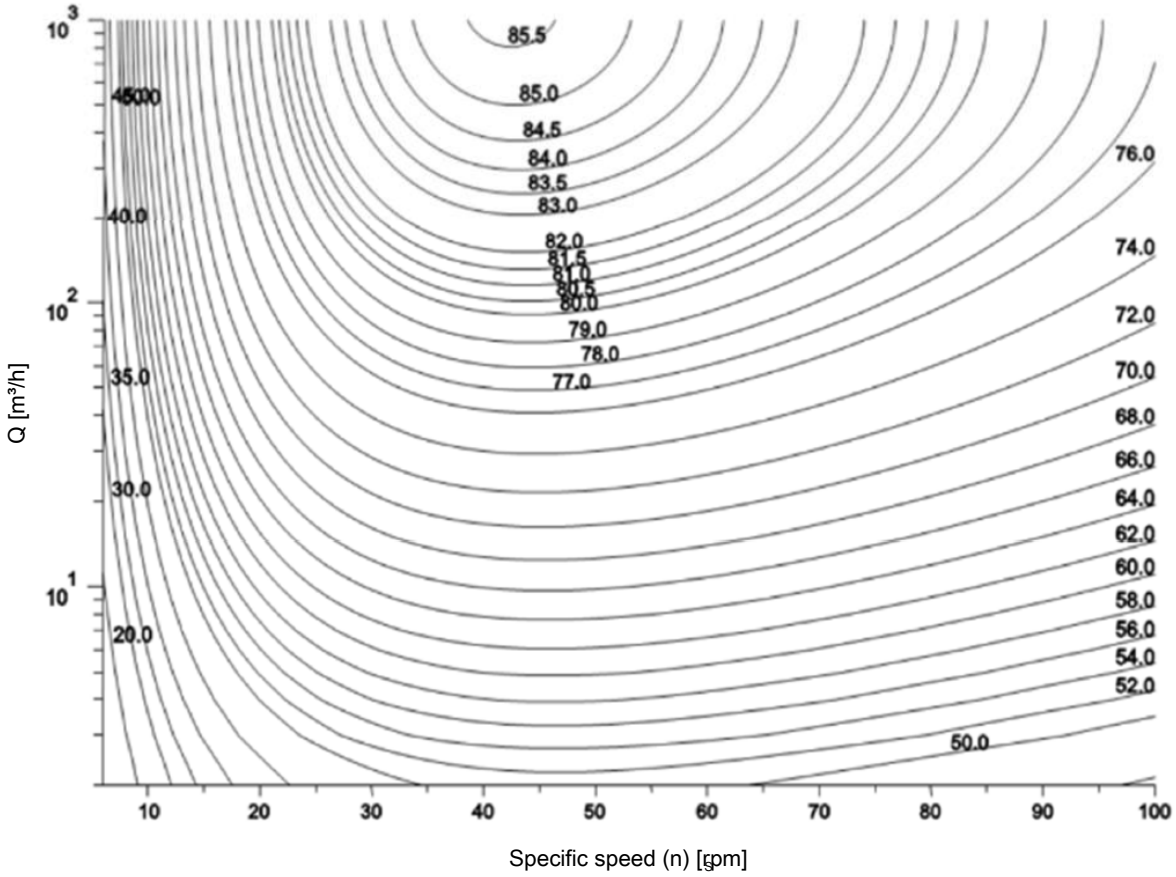


Fig. 8: ESCC, MEI 0.7, 2900 rpm

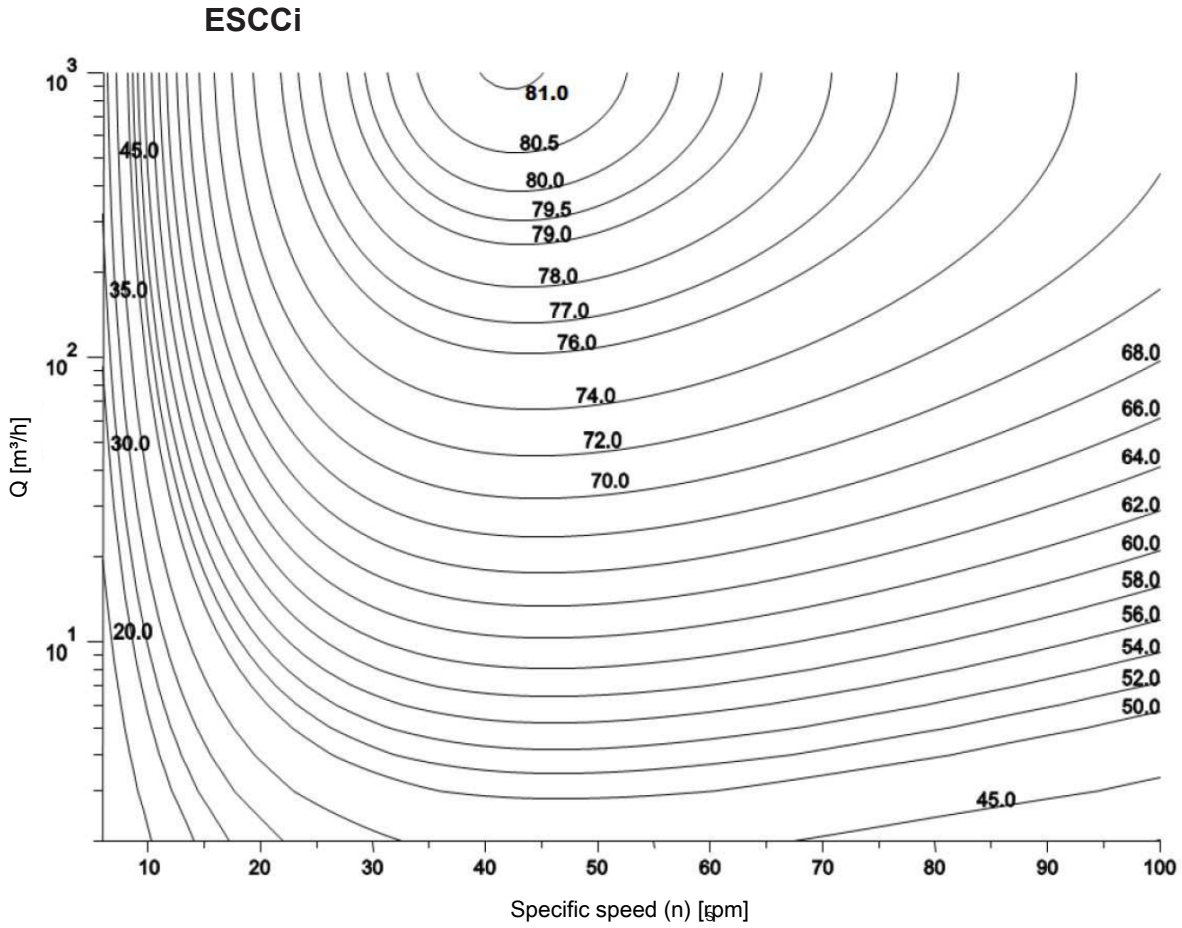


Fig. 9: ESCCi, MEI 0.4, 1450 rpm

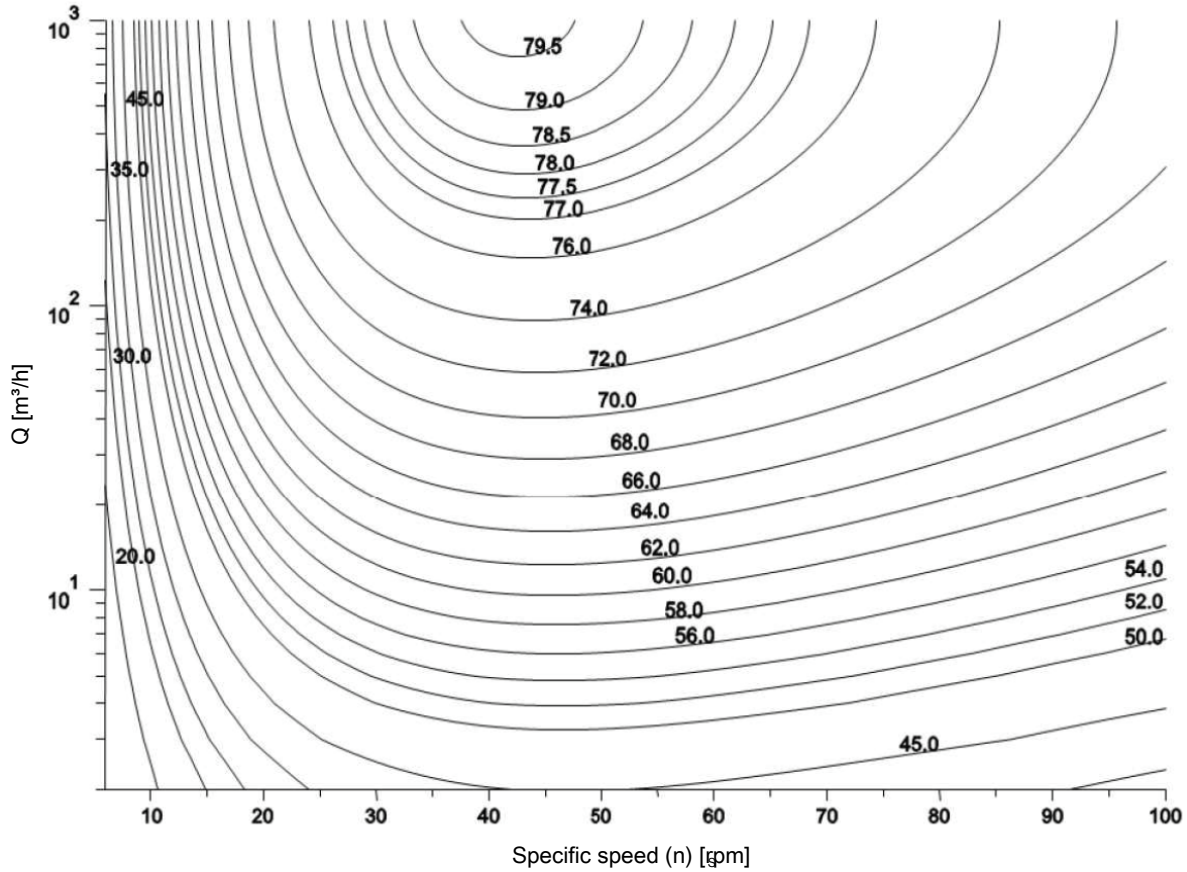


Fig. 10: ESCCi, MEI 0.4, 2900 rpm

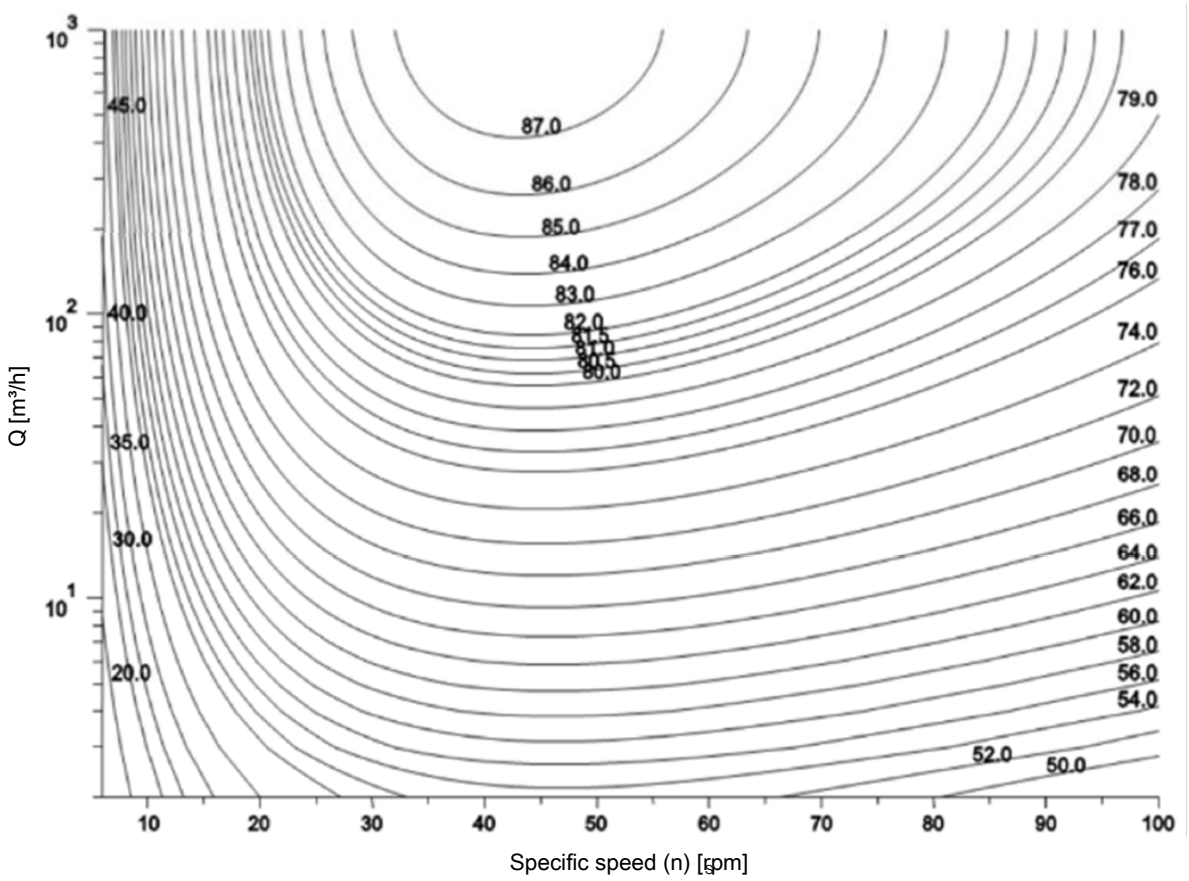


Fig. 11: ESCC, MEI 0.7, 1450 rpm

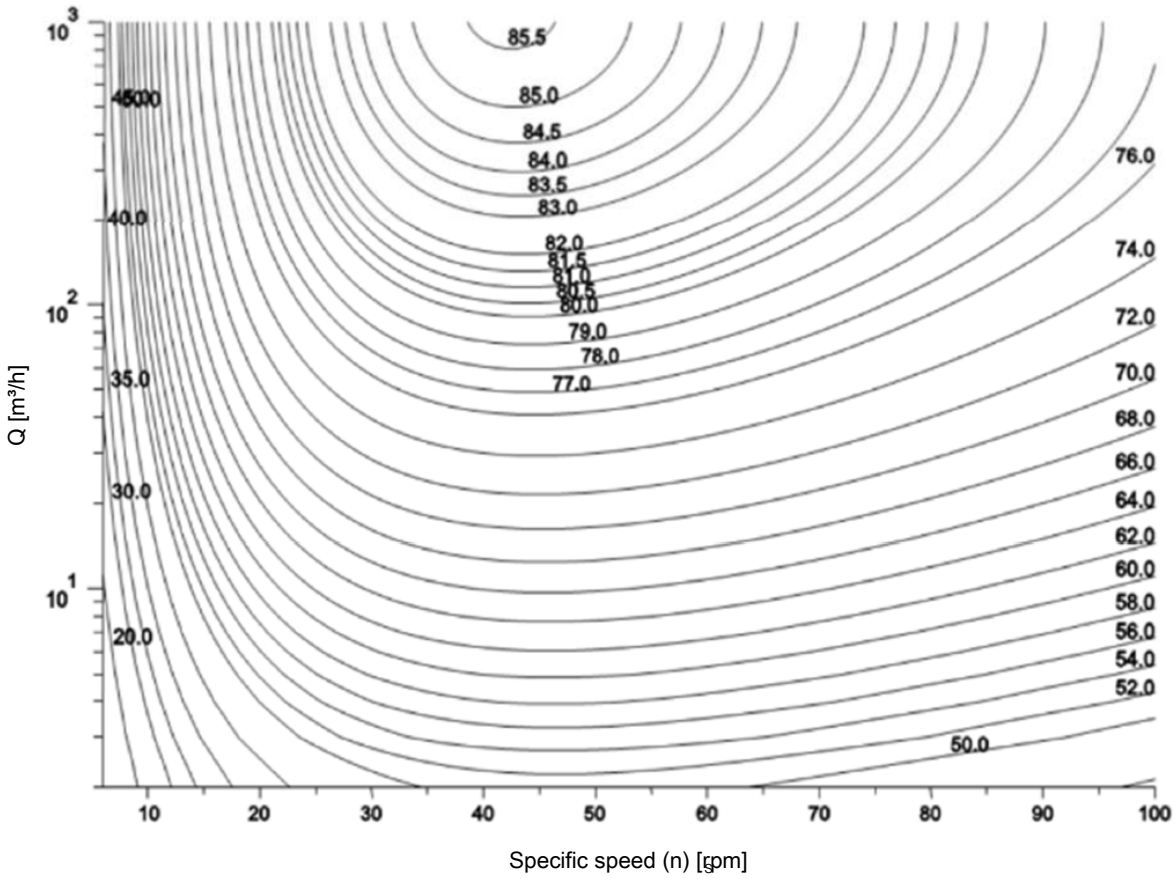


Fig. 12: ESCC, MEI 0.7, 2900 rpm

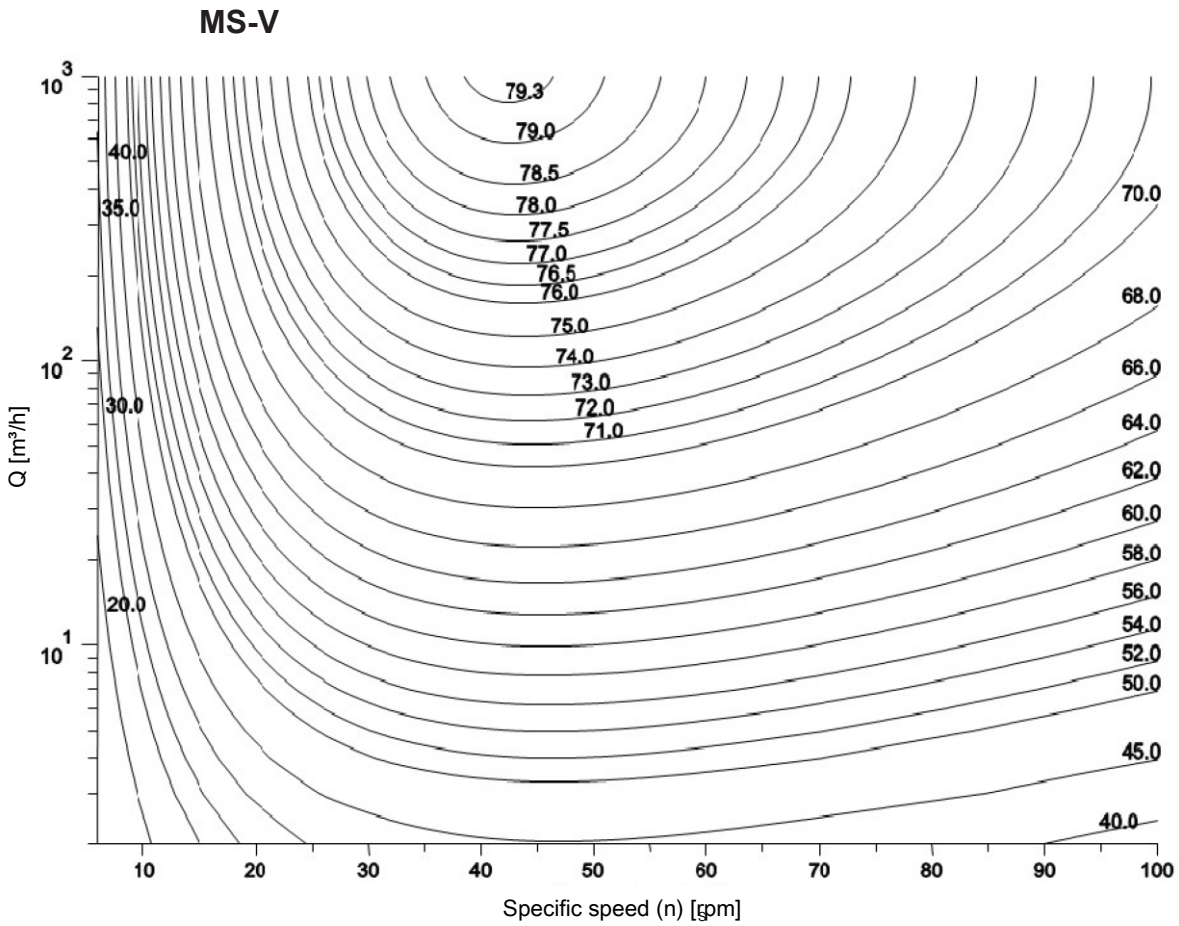


Fig. 13: MS-V, MEI 0.4, 2900 rpm

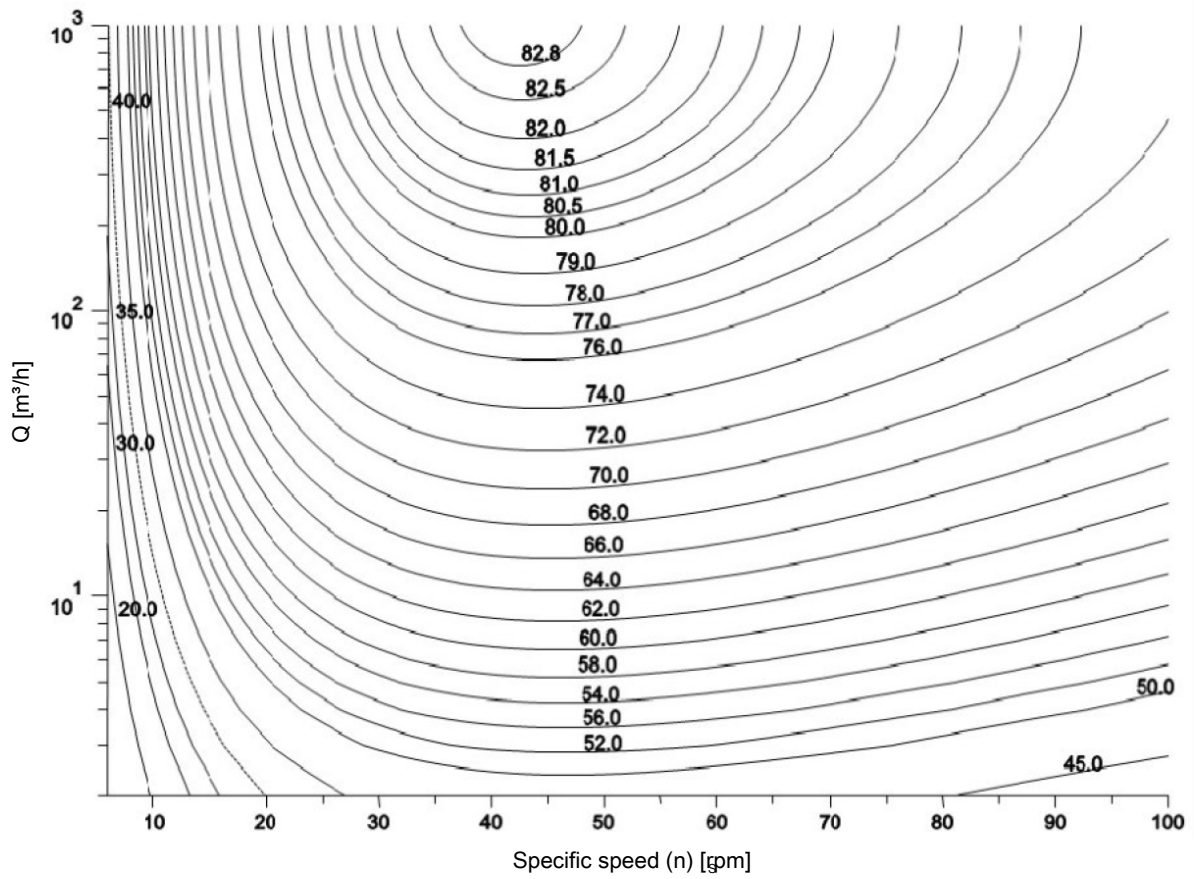


Fig. 14: MS-V, MEI 0.7, 2900 rpm

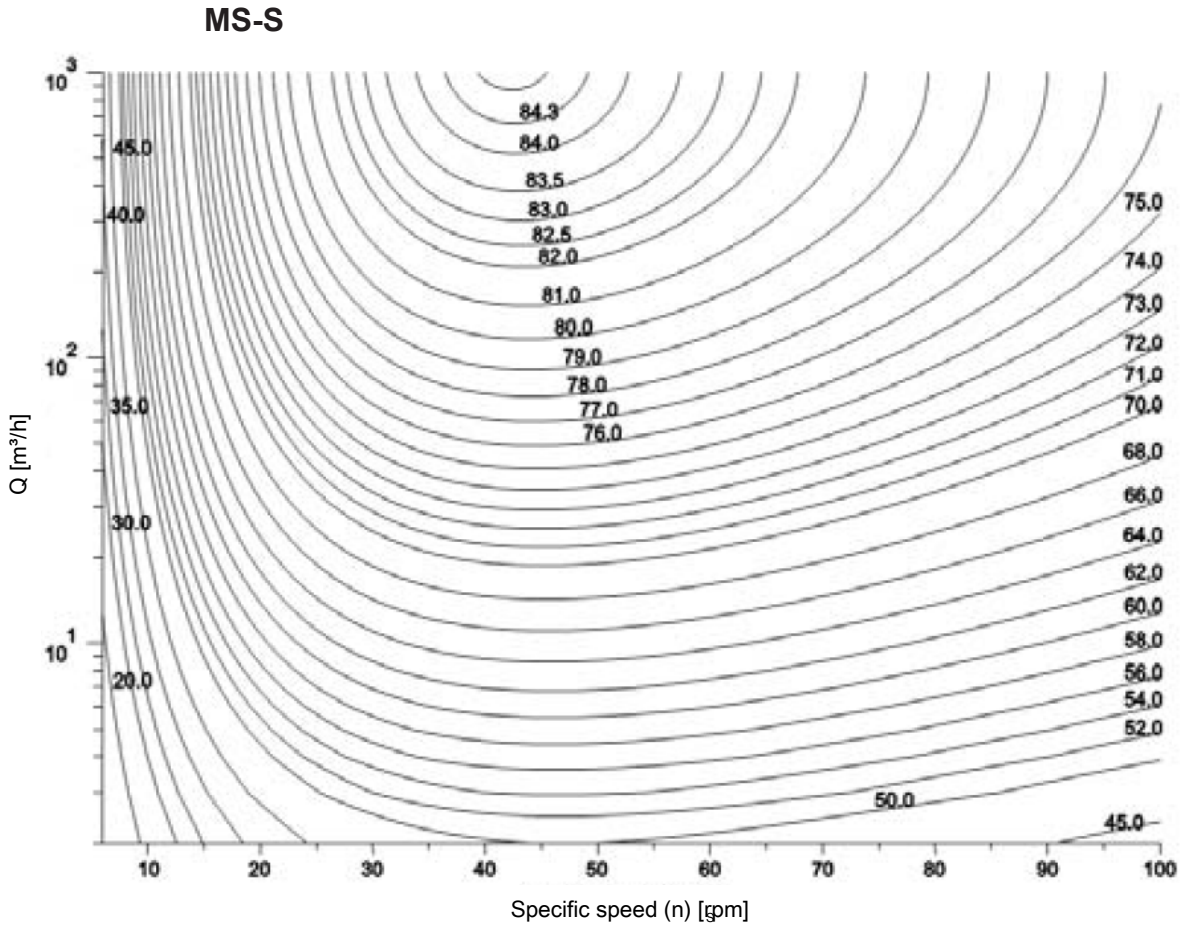


Fig. 15: MS-S, MEI 0.4, 2900 rpm

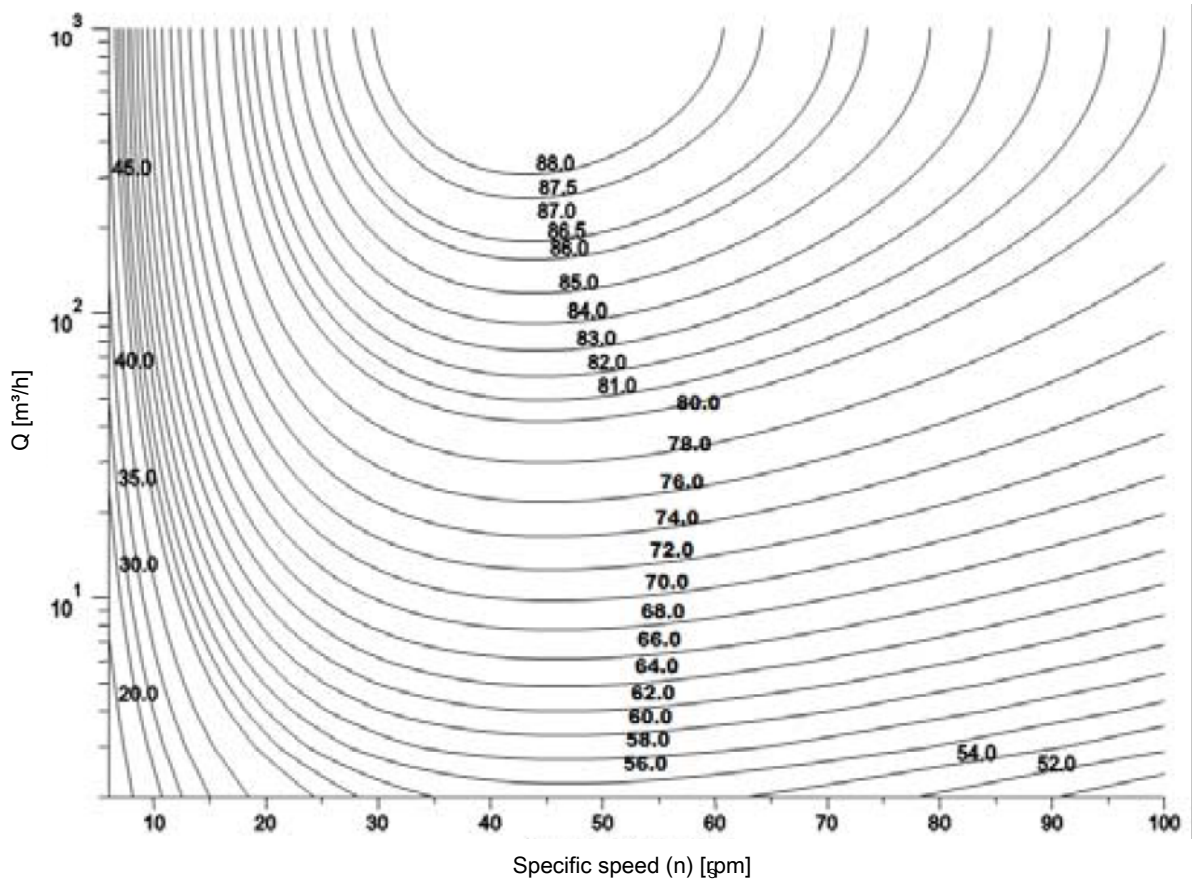


Fig. 16: MS-S, MEI 0.7, 2900 rpm

Produktinformation gemäß Verordnung (EU) Nr. 547/2012

Die Verordnung (EU) Nr. 547/2012 legt europaweit einheitliche Anforderungen an die Energieeffizienz von Wasserpumpen fest. Ihr Ziel: den Energieverbrauch moderner Pumpensysteme senken und damit Kosten und Umweltbelastungen deutlich reduzieren. Die Vorgaben gelten für viele gängige Pumpentypen, sowohl für einzeln verkaufte Modelle als auch für Pumpen, die in andere Produkte integriert sind.

Kern der Verordnung sind die sogenannten Referenzwerte. Sie zeigen, welche Effizienz technisch führende Pumpen heute erreichen. Für Kunden sind sie eine Orientierungshilfe: Sie machen sichtbar, welche Leistungen moderne, effizient konstruierte Pumpen bieten und ermöglichen einen transparenten Vergleich verschiedener Produkte.

Im Folgenden sind die gesetzlich vorgeschriebenen Referenzwerte dargestellt. Sie umfassen die Werte für den Benchmark MEI 0.7 sowie für den gesetzlichen Mindestwert MEI 0.4 – jeweils getrennt nach Pumpentypen.

Tab. 1: Referenzwerte nach Bauart

Bauart		**MEI 0,7**		**MEI 0,4**	
		1450 min^{-1}	**2900 min^{-1}**	**1450 min^{-1}**	**2900 min^{-1}**
ESO B	Wasserpumpe mit axialem Strömungseintritt, eigene Lager	[⇨ Abb. 3]	[⇨ Abb. 4]	[⇨ Abb. 1]	[⇨ Abb. 2]
ESC C	Wasserpumpe mit axialem Strömungseintritt, Blockbauweise	[⇨ Abb. 7]	[⇨ Abb. 8]	[⇨ Abb. 5]	[⇨ Abb. 6]
ESC-Ci	Block-Wasserpumpe mit axialem Strömungs-eintritt, Inline-Ausführung	[⇨ Abb. 11]	[⇨ Abb. 12]	[⇨ Abb. 9]	[⇨ Abb. 10]
MS-V	Mehrstufige, vertikale Wasserpumpe	-	[⇨ Abb. 14]	-	[⇨ Abb. 13]
MSS	Mehrstufige Tauchwasserpumpe	-	[⇨ Abb. 16]	-	[⇨ Abb. 15]

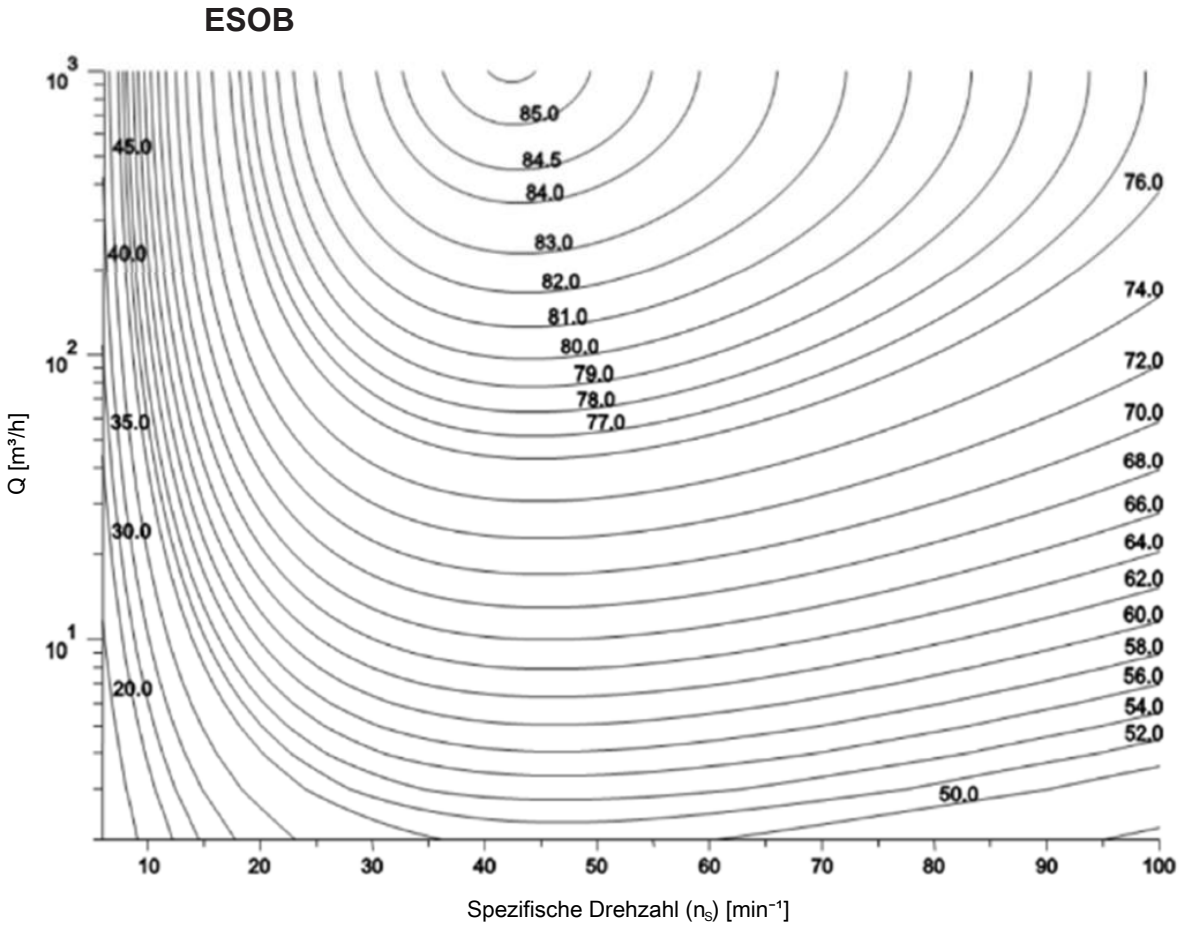


Abb. 1: ESOB, MEI 0,4, 1450 min⁻¹

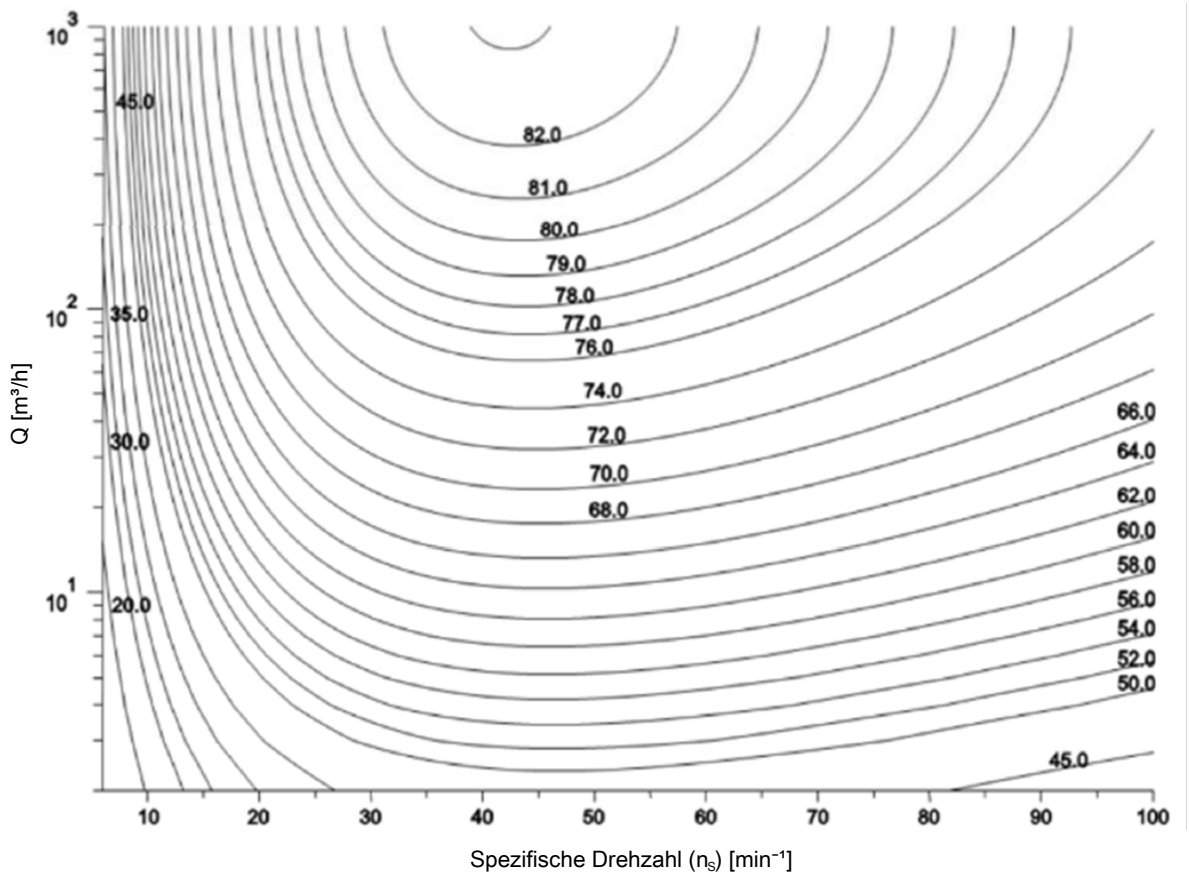


Abb. 2: ESOB, MEI 0,4, 2900 min⁻¹

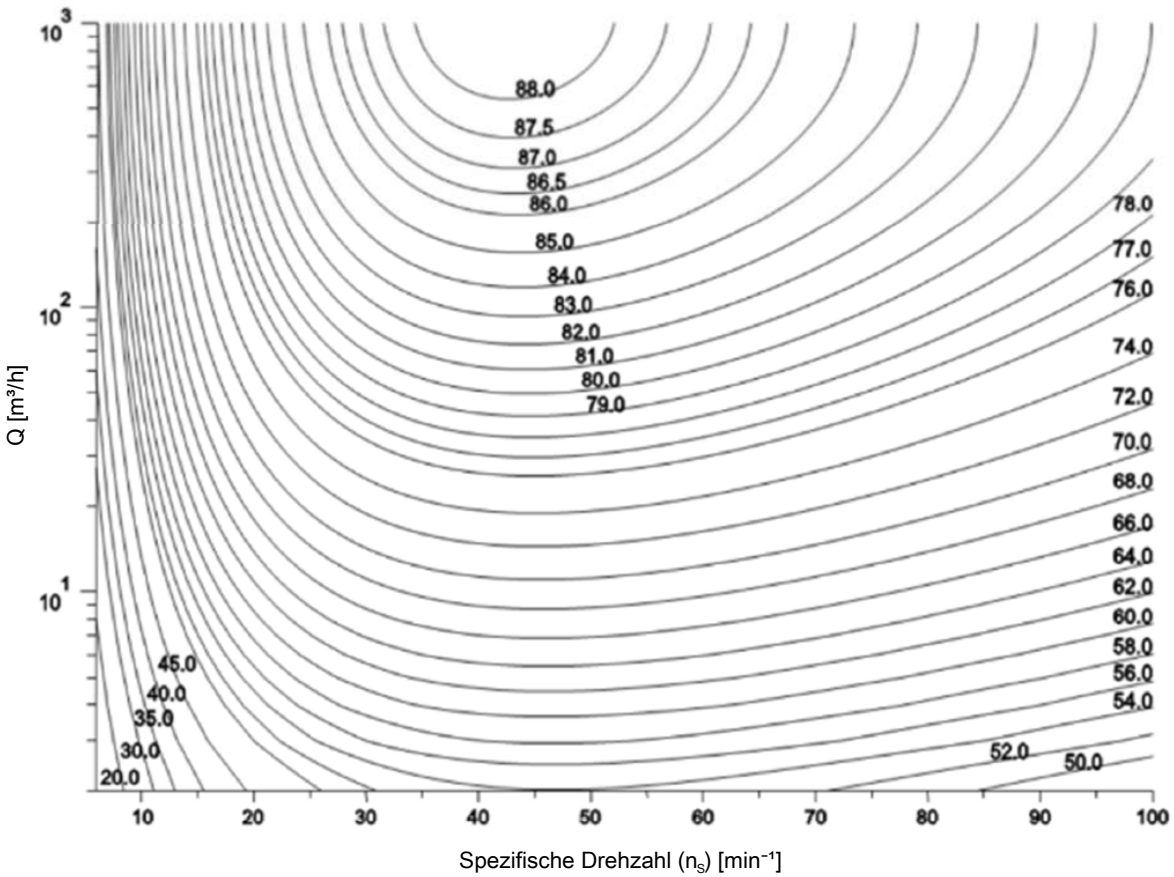


Abb. 3: ESOB, MEI 0,7, 1450 min⁻¹

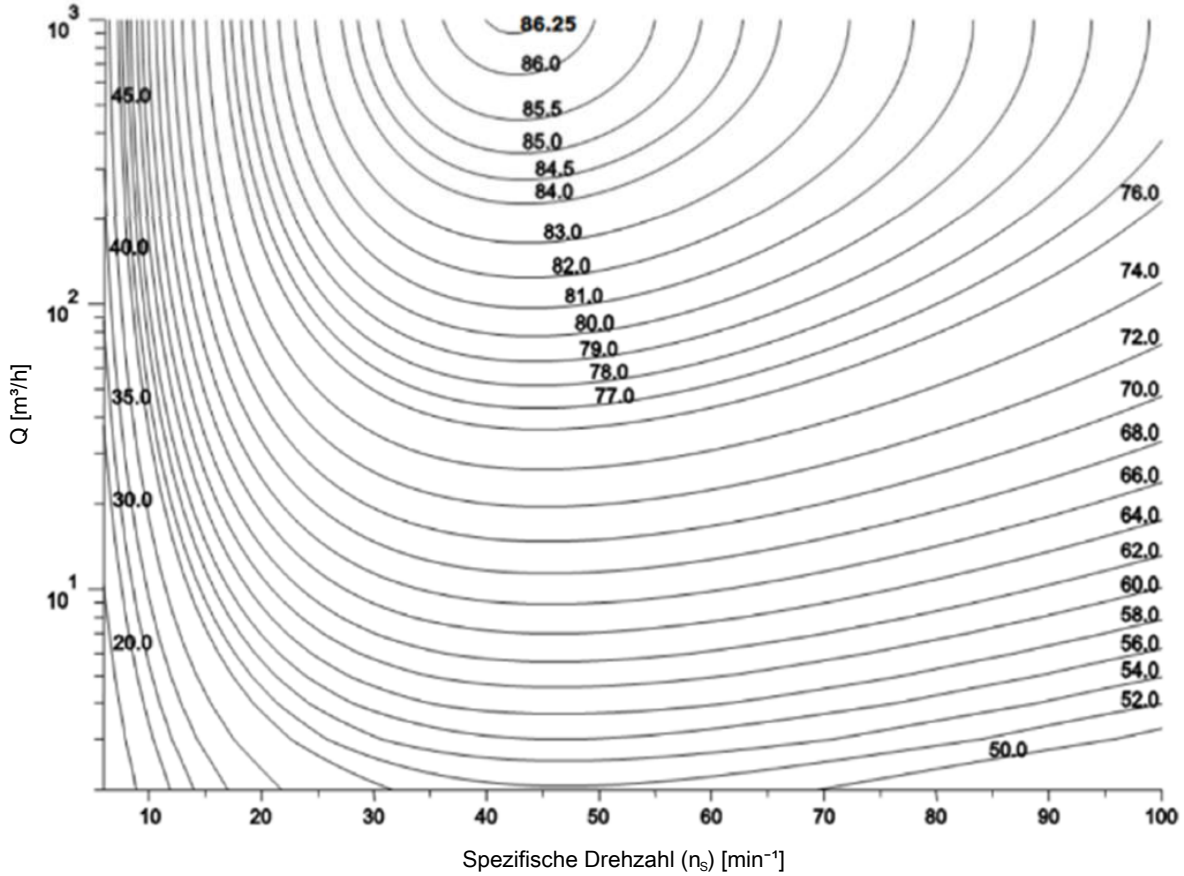


Abb. 4: ESOB, MEI 0,7, 2900 min⁻¹

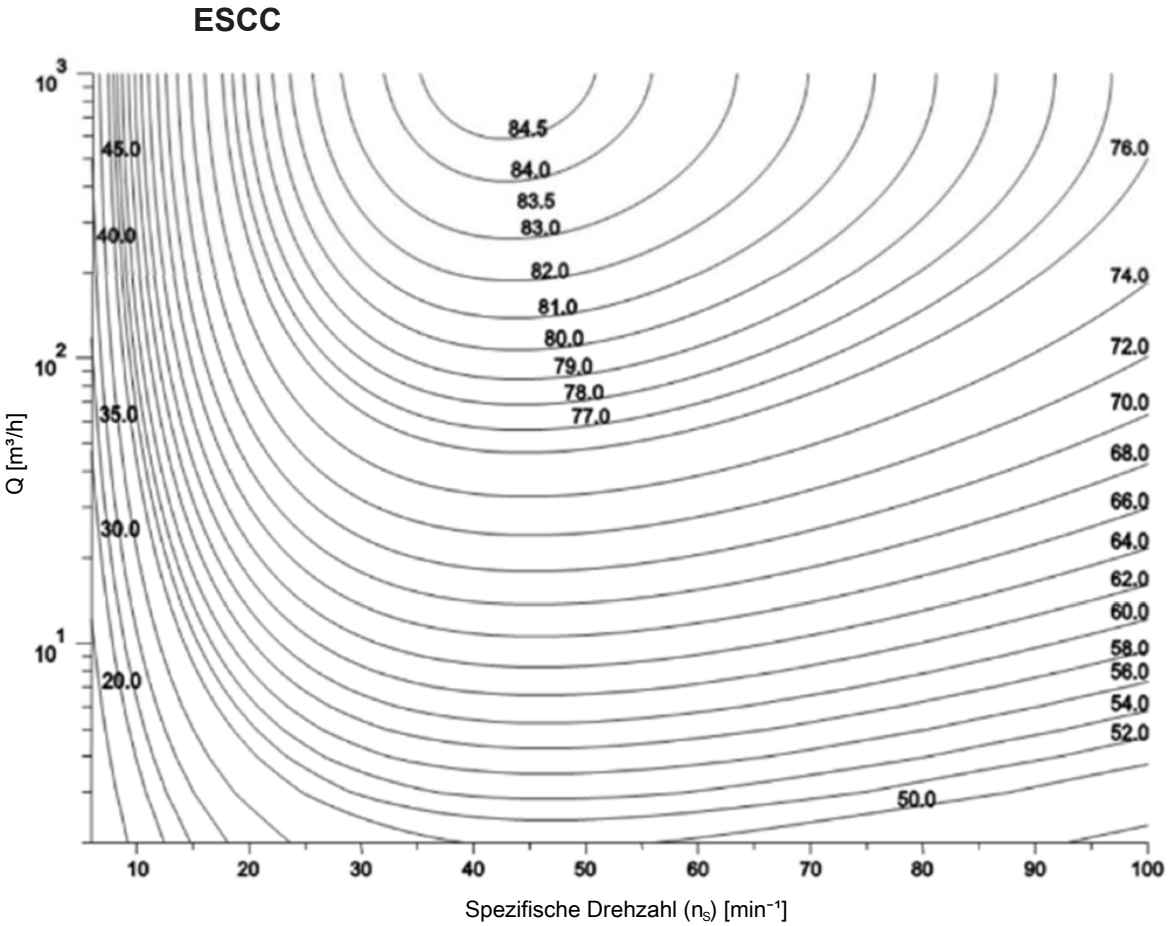


Abb. 5: ESCC, MEI 0,4, 1450 min⁻¹

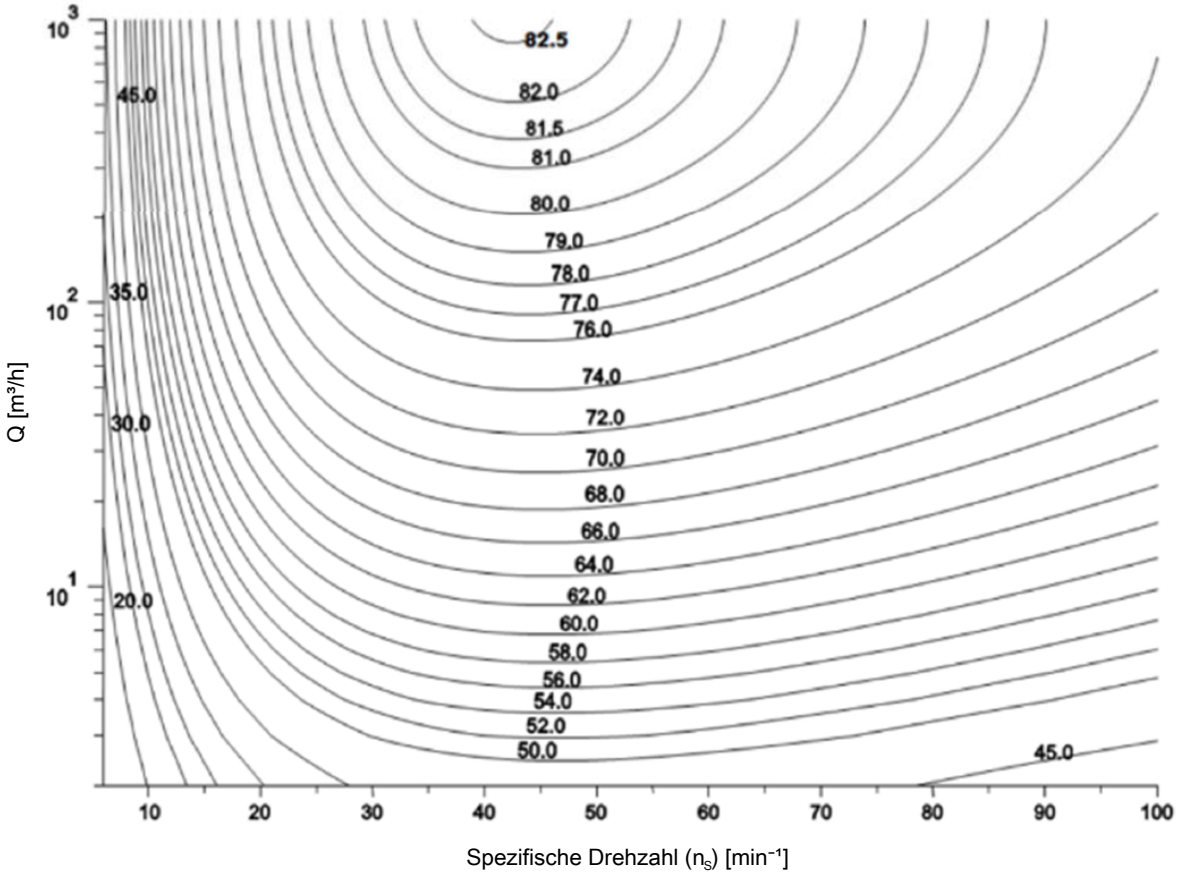


Abb. 6: ESCC, MEI 0,4, 2900 min⁻¹

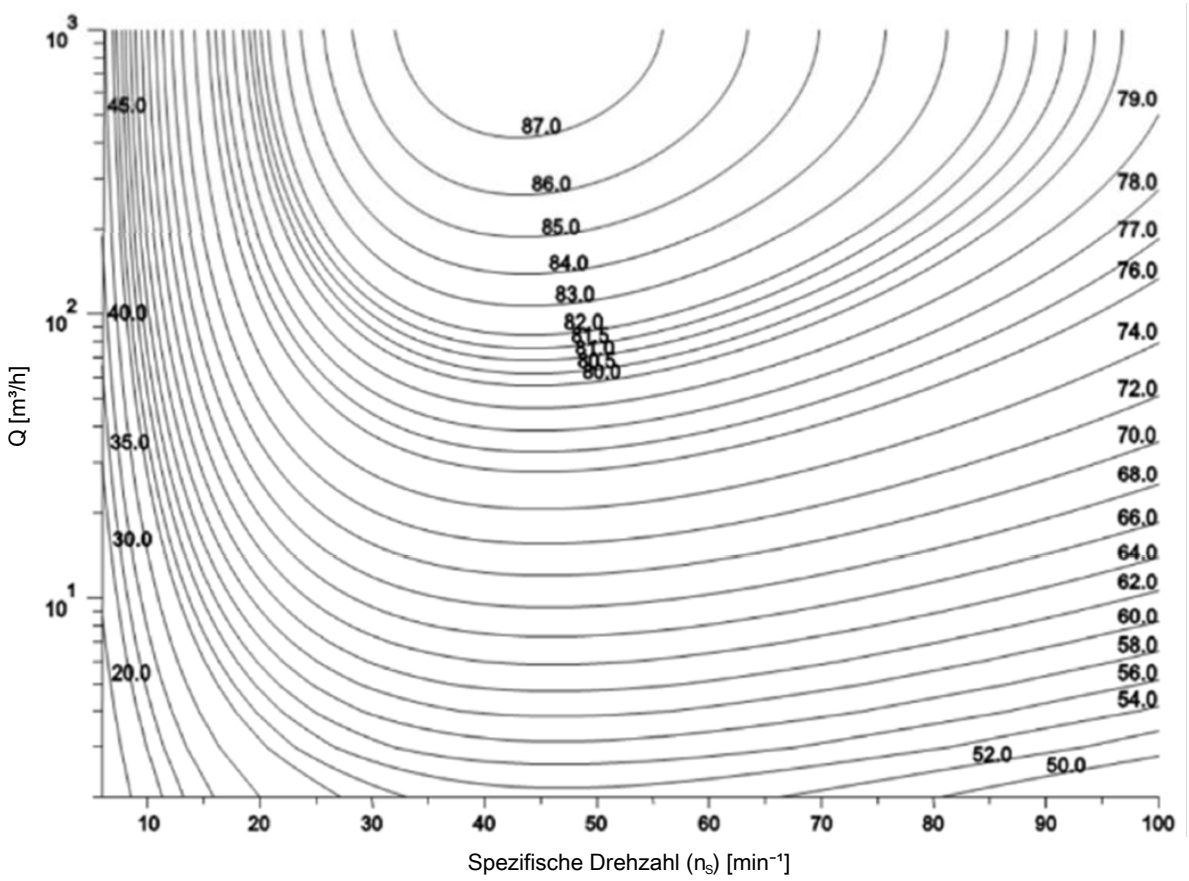


Abb. 7: ESCC, MEI 0,7, 1450 min⁻¹

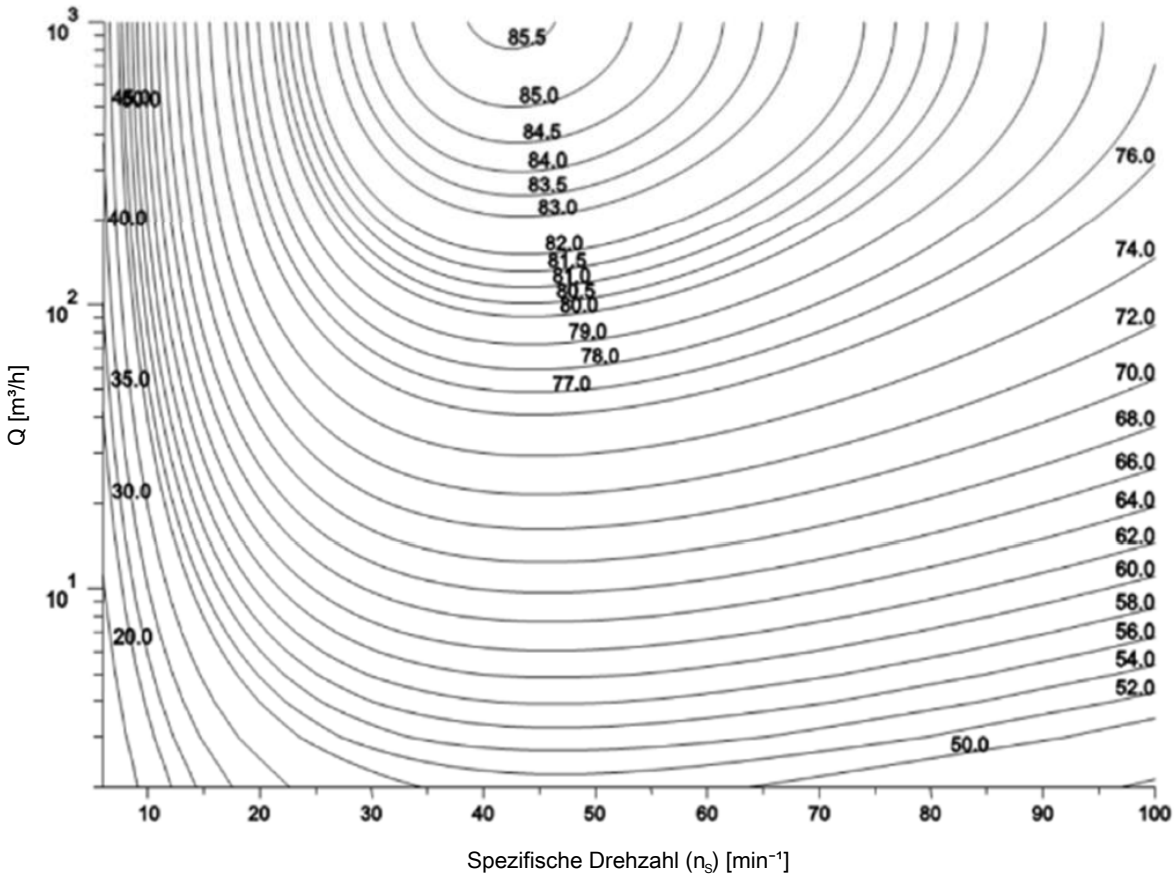


Abb. 8: ESCC, MEI 0,7, 2900 min⁻¹

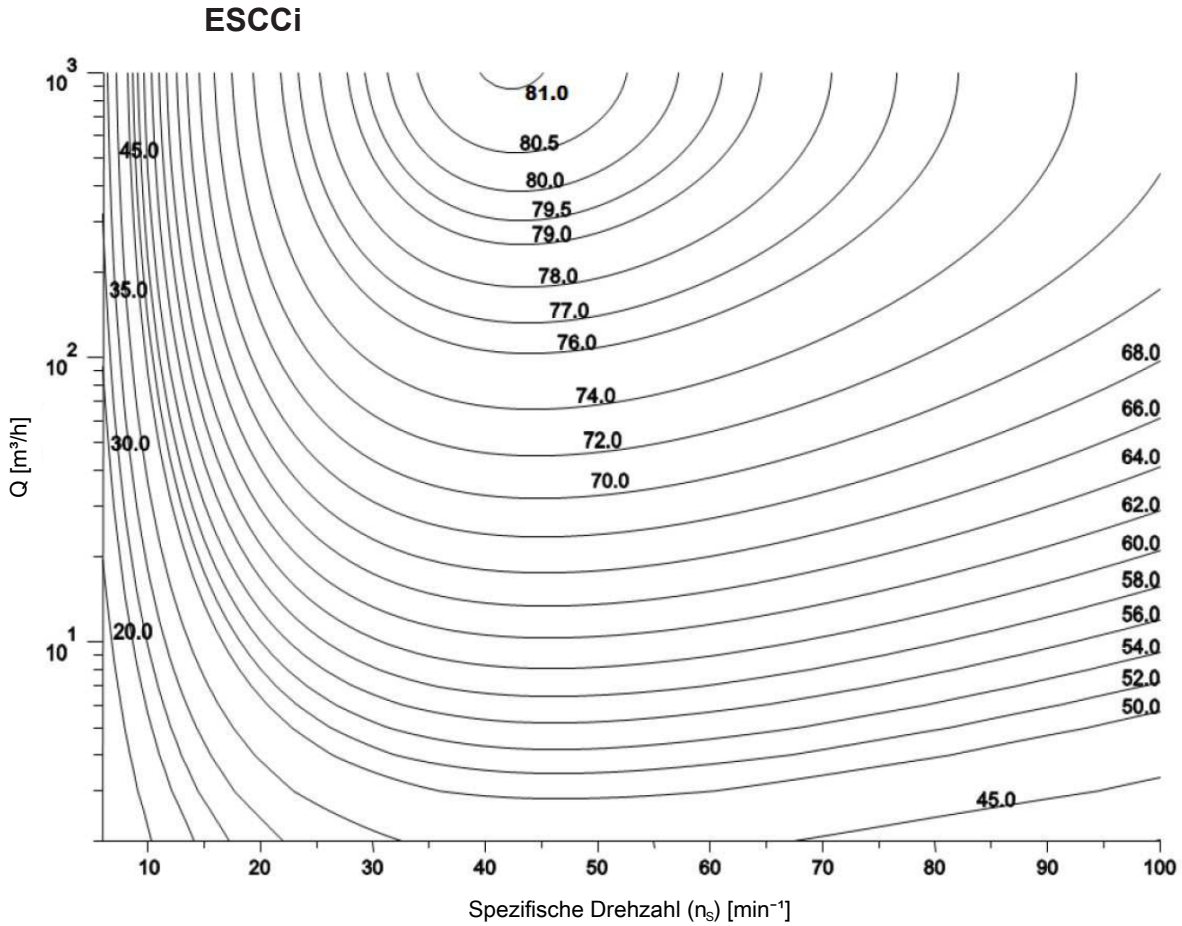


Abb. 9: ESCCi, MEI 0,4, 1450 min⁻¹

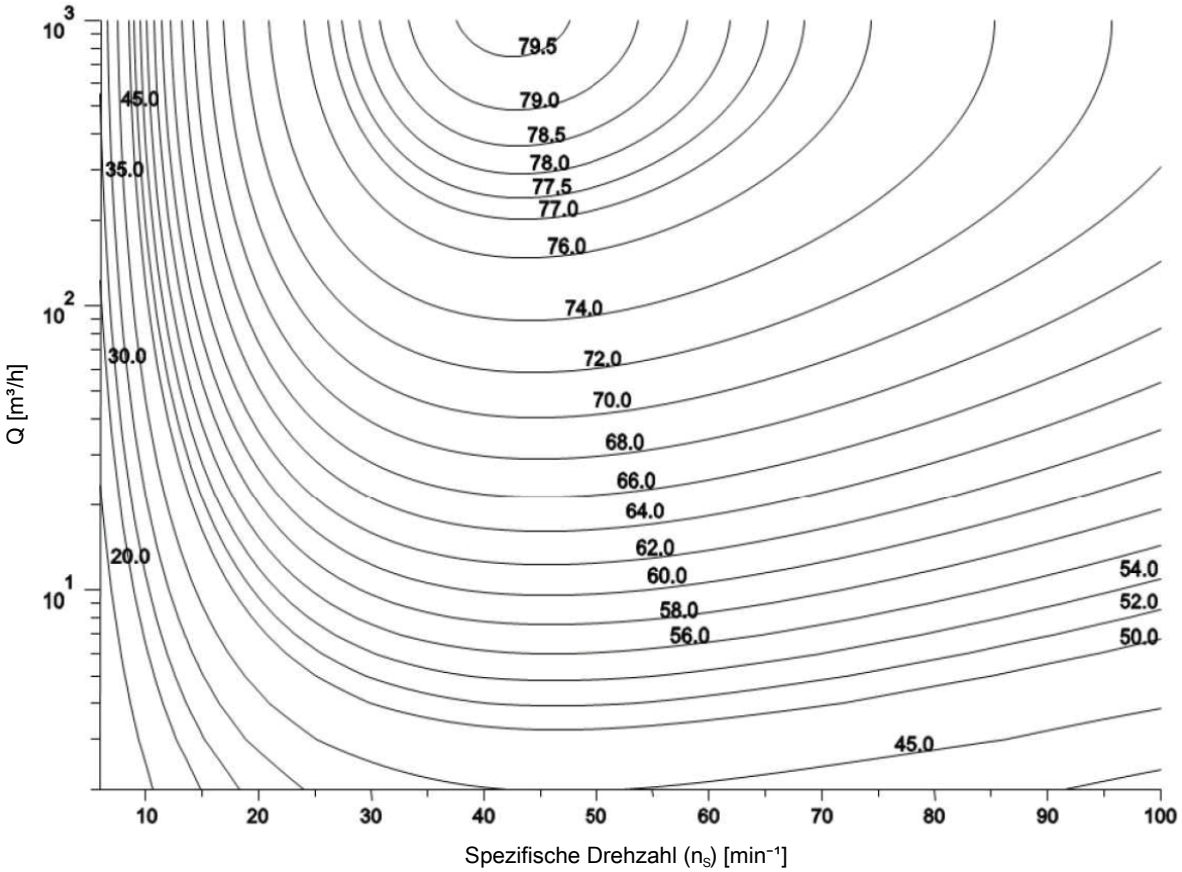


Abb. 10: ESCCi, MEI 0,4, 2900 min⁻¹

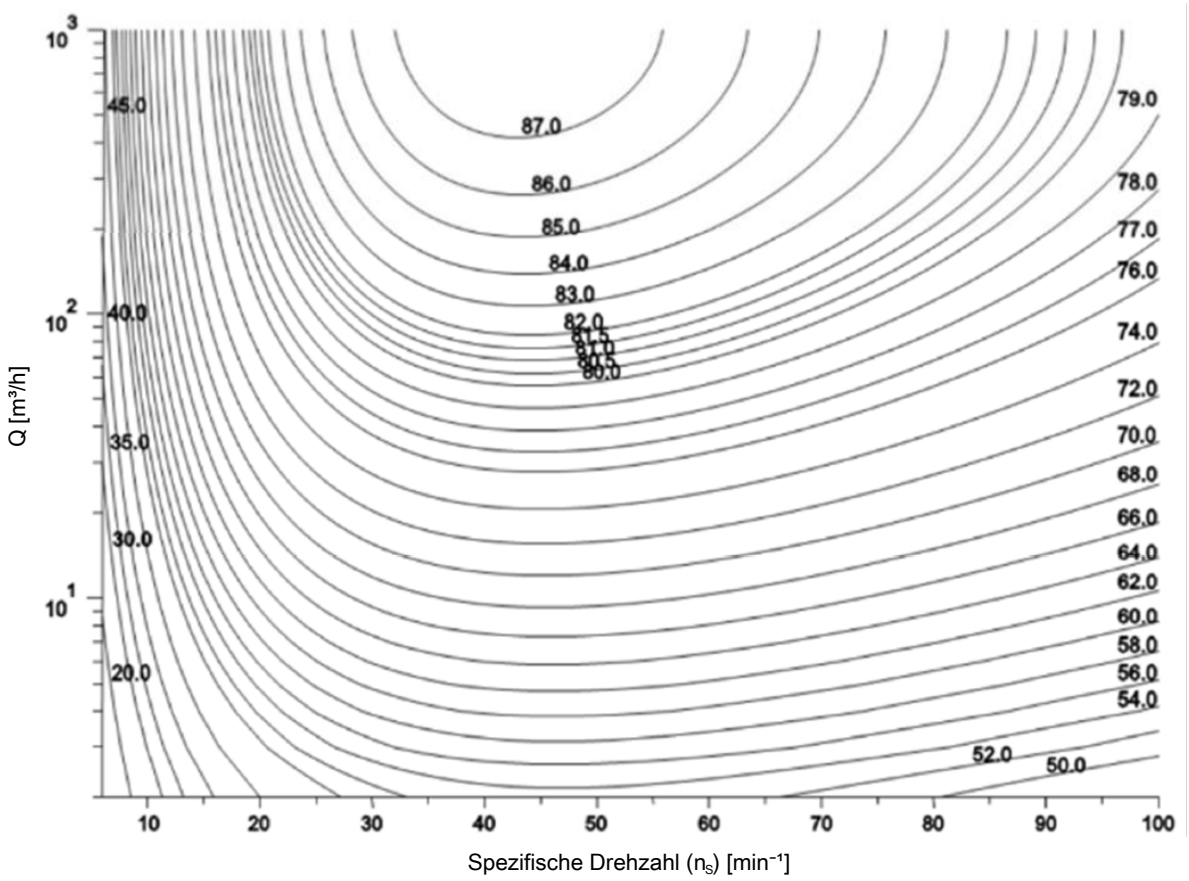


Abb. 11: ESCC, MEI 0,7, 1450 min⁻¹

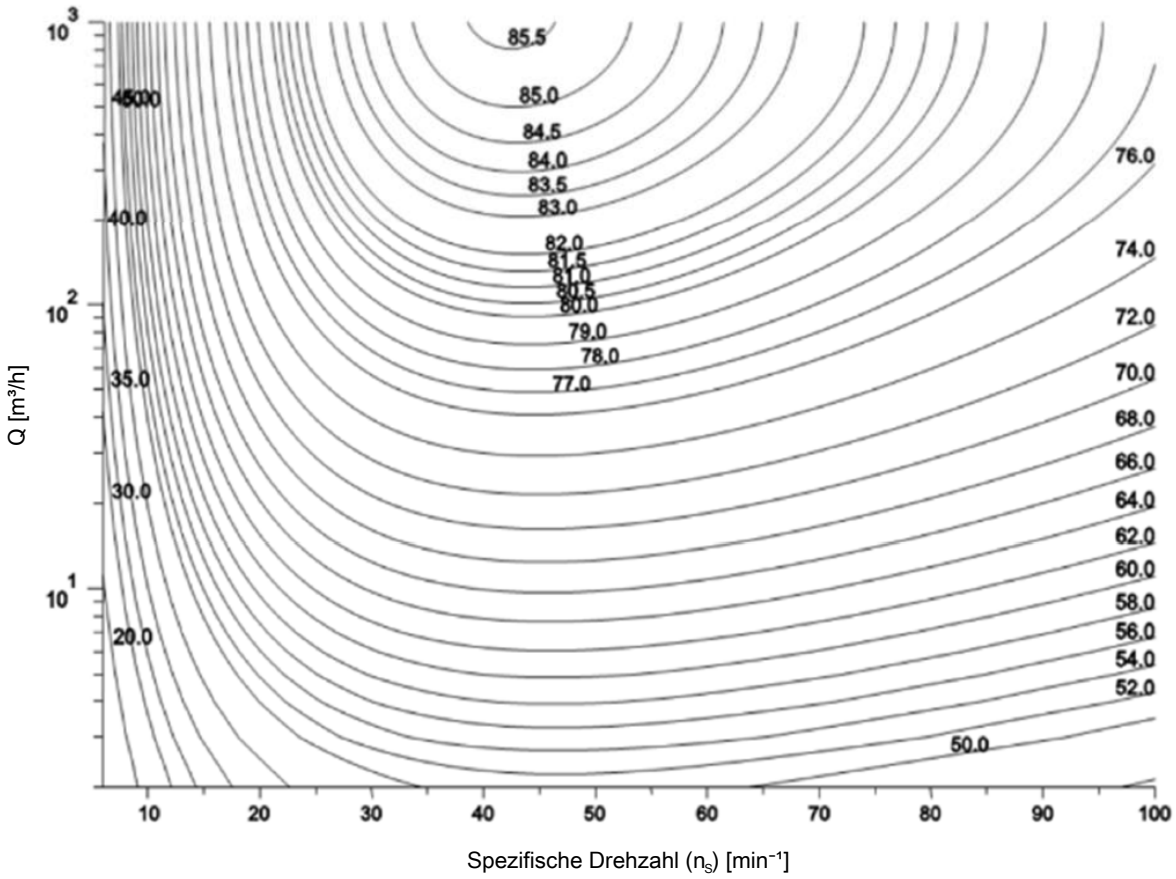


Abb. 12: ESCC, MEI 0,7, 2900 min⁻¹

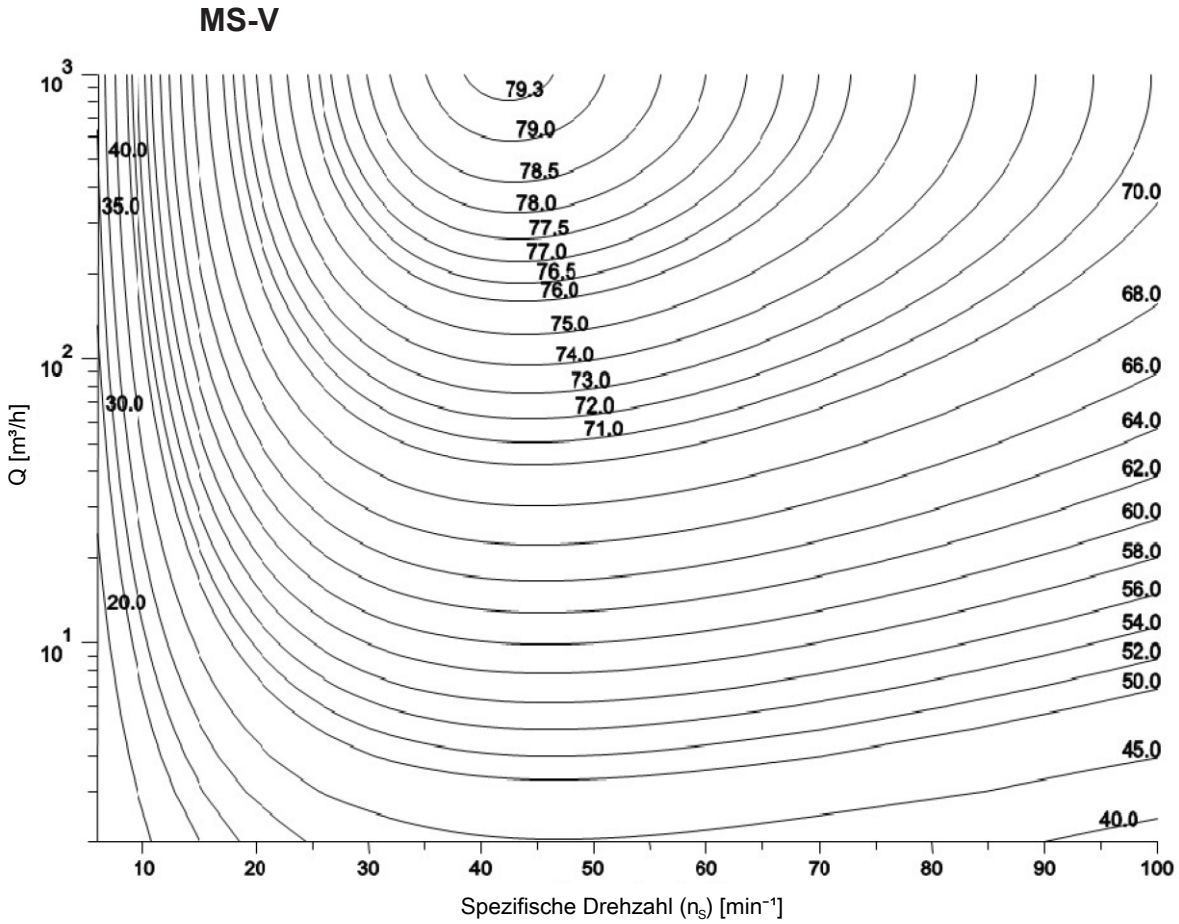


Abb. 13: MS-V, MEI 0,4, 2900 min⁻¹

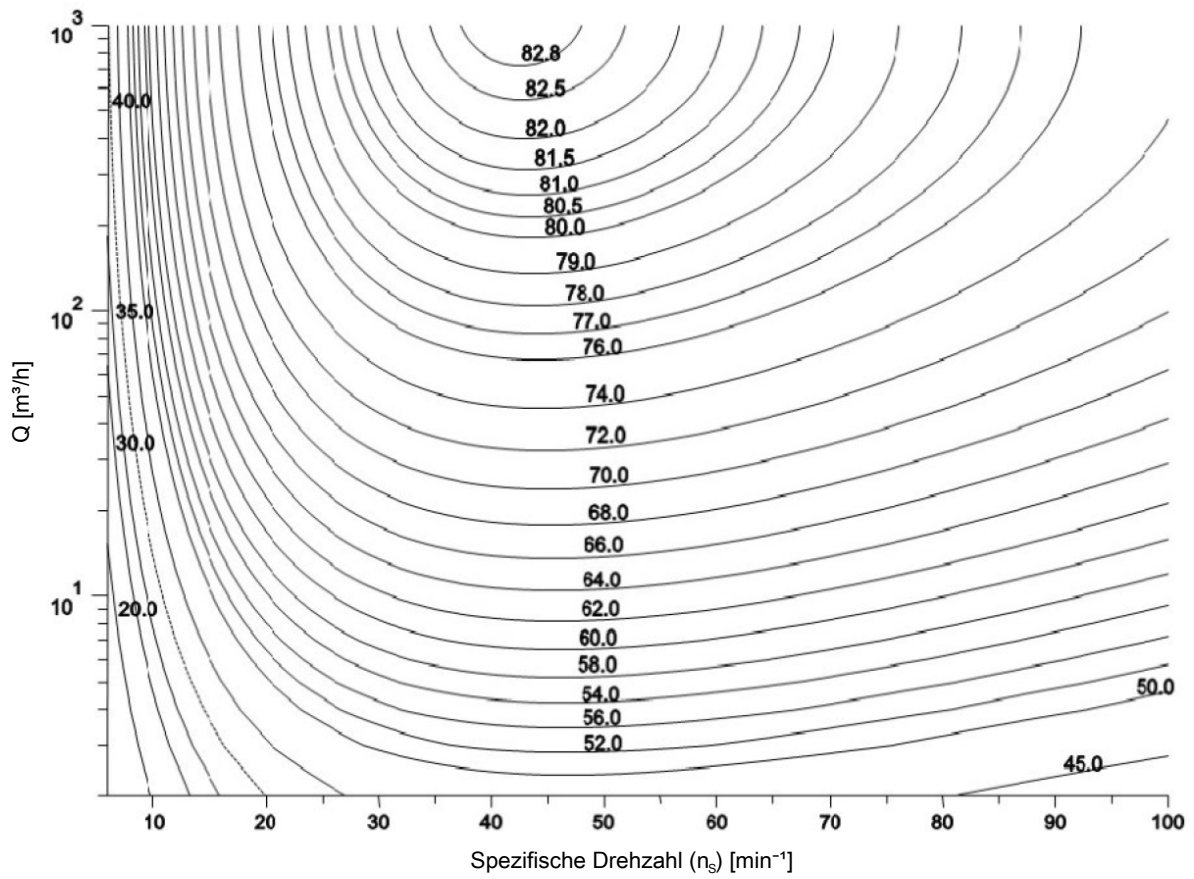


Abb. 14: MS-V, MEI 0,7, 2900 min⁻¹

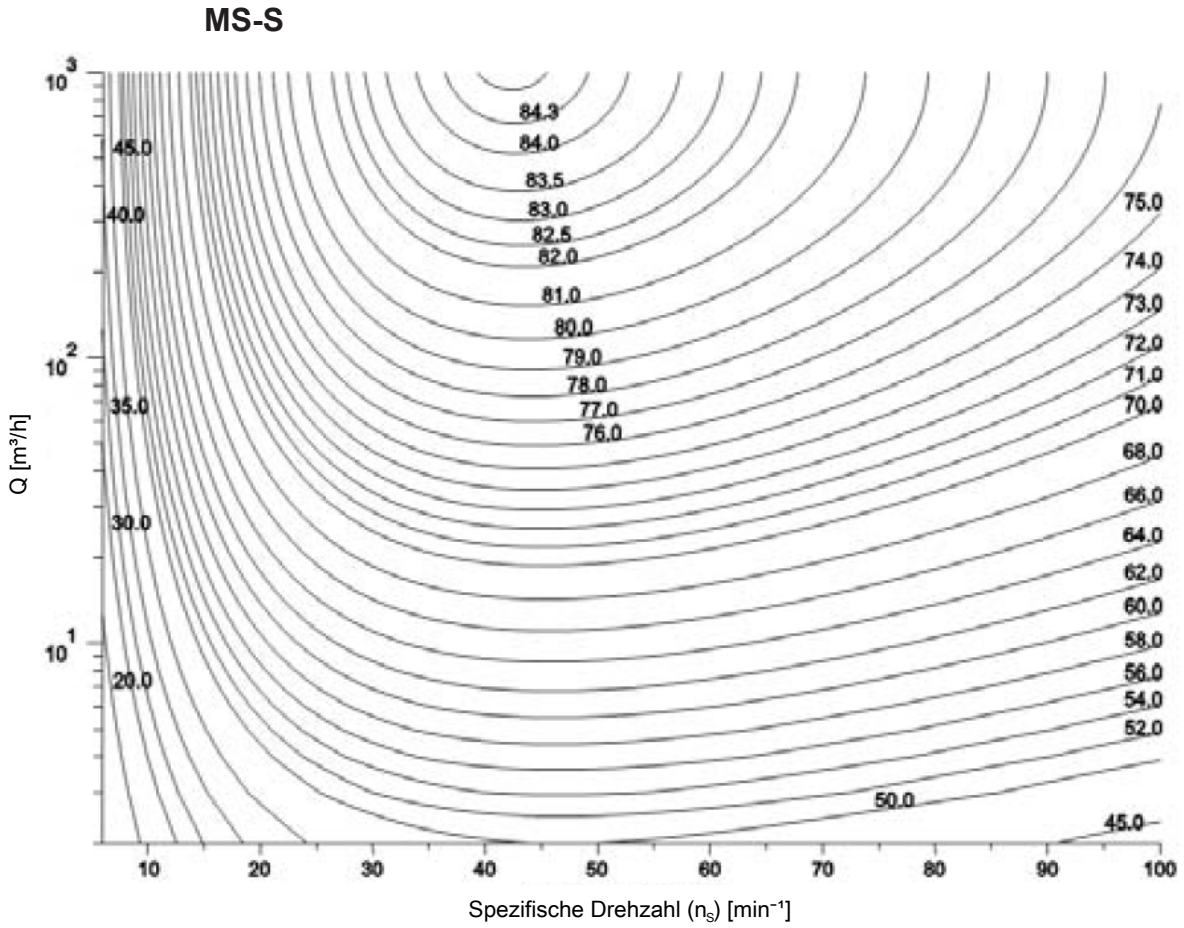


Abb. 15: MS-S, MEI 0,4, 2900 min⁻¹

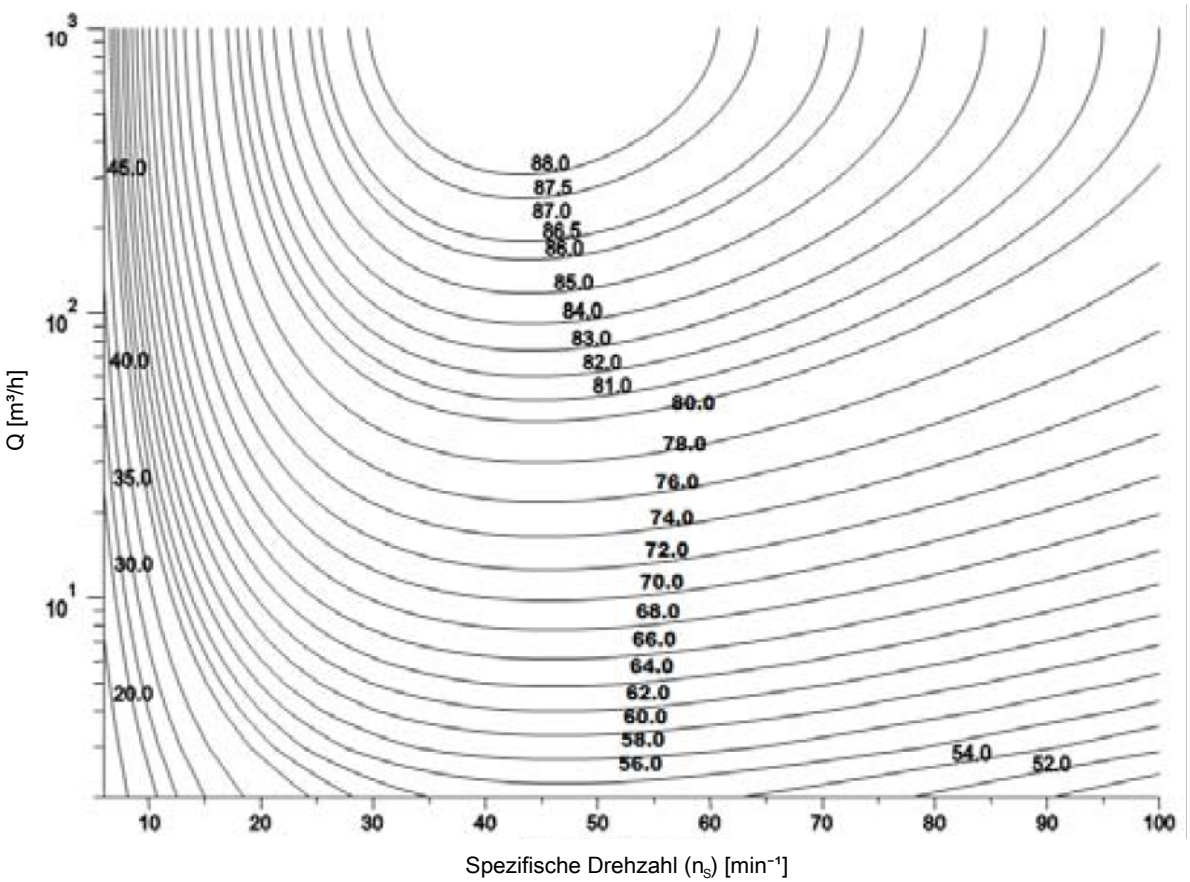


Abb. 16: MS-S, MEI 0,7, 2900 min⁻¹

Information produit selon le règlement (UE) n° 547/2012

Le règlement (UE) n° 547/2012 fixe des exigences uniformes à l'échelle européenne en matière d'efficacité énergétique des pompes à eau. Son objectif : réduire la consommation d'énergie des systèmes de pompage modernes et, par là même, diminuer considérablement les coûts et l'impact environnemental. Ces exigences s'appliquent à de nombreux types de pompes courants, qu'il s'agisse de modèles vendus seuls ou de pompes intégrées à d'autres produits.

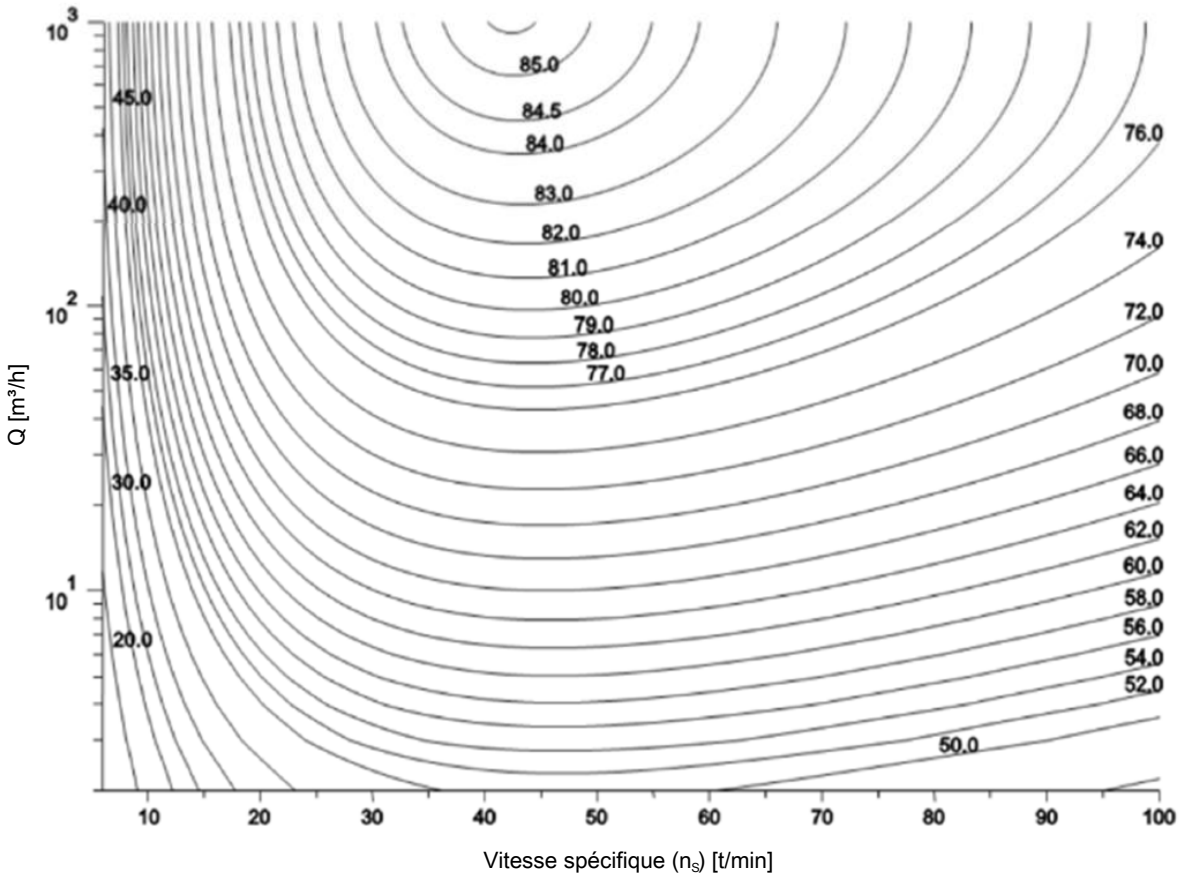
Les « valeurs de référence » constituent l'élément central de ce règlement. Elles indiquent le niveau d'efficacité actuellement atteint par les pompes à la pointe de la technologie. Elles constituent des repères pour les clients : elles mettent en évidence les performances offertes par les pompes modernes et efficaces et permettent une comparaison transparente entre différents produits.

Les valeurs de référence prescrites par la loi sont présentées ci-dessous. Elles comprennent les valeurs correspondant à l'indice de référence MEI 0.7 ainsi qu'à la valeur minimale légale MEI 0.4, classées par type de pompe.

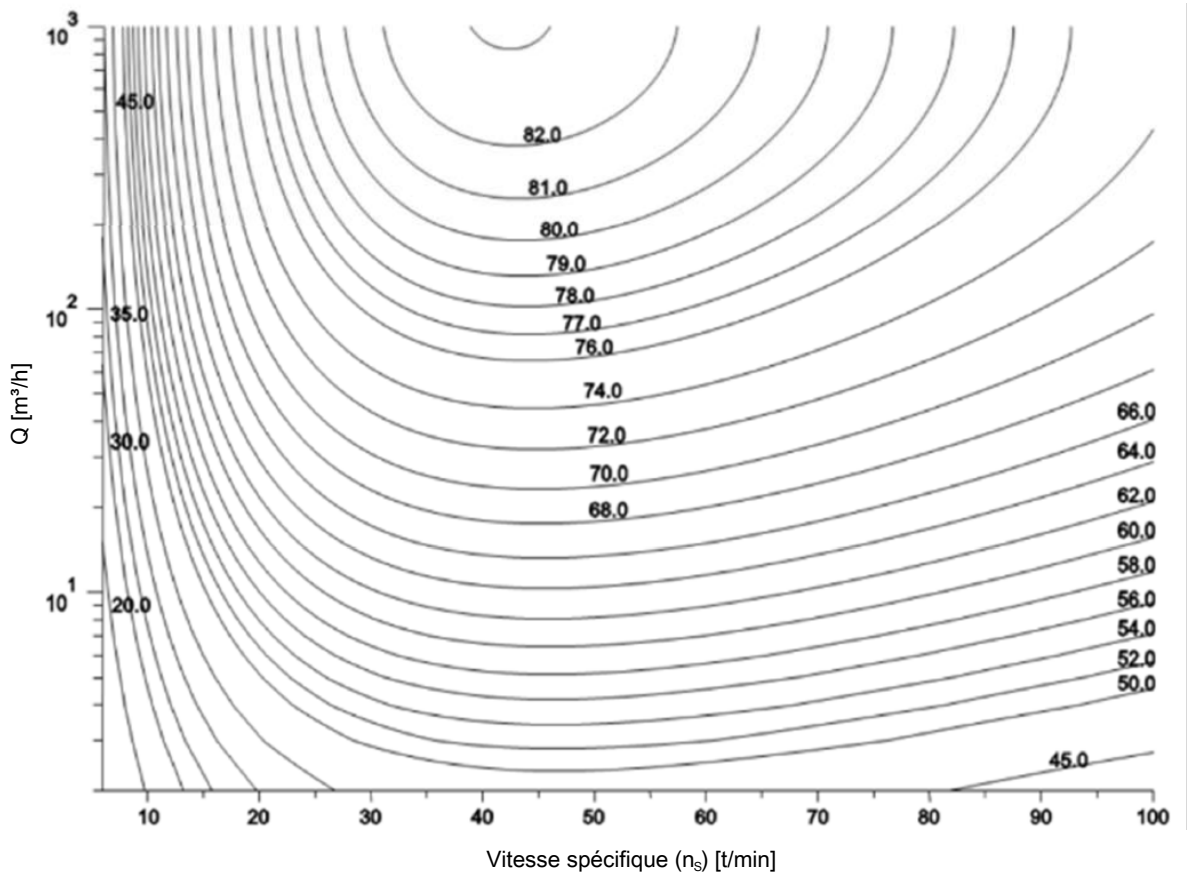
Tableau 1: Valeurs de référence par type

Type		MEI 0,7		MEI 0,4	
		1450 t/min	2900 t/min	1450 t/min	2900 t/min
ESOB	Pompe à eau à aspiration axiale à paliers intégrés	[⇨ III. 3]	[⇨ III. 4]	[⇨ III. 1]	[⇨ III. 2]
ESCC	Pompe à eau monobloc à aspiration axiale	[⇨ III. 7]	[⇨ III. 8]	[⇨ III. 5]	[⇨ III. 6]
ESC-Ci	Pompe à eau monobloc en ligne à aspiration axiale	[⇨ III. 11]	[⇨ III. 12]	[⇨ III. 9]	[⇨ III. 10]
MS-V	Pompe à eau verticale multiétagée	-	[⇨ III. 14]	-	[⇨ III. 13]
MSS	Pompe à eau submersible multiétagée	-	[⇨ III. 16]	-	[⇨ III. 15]

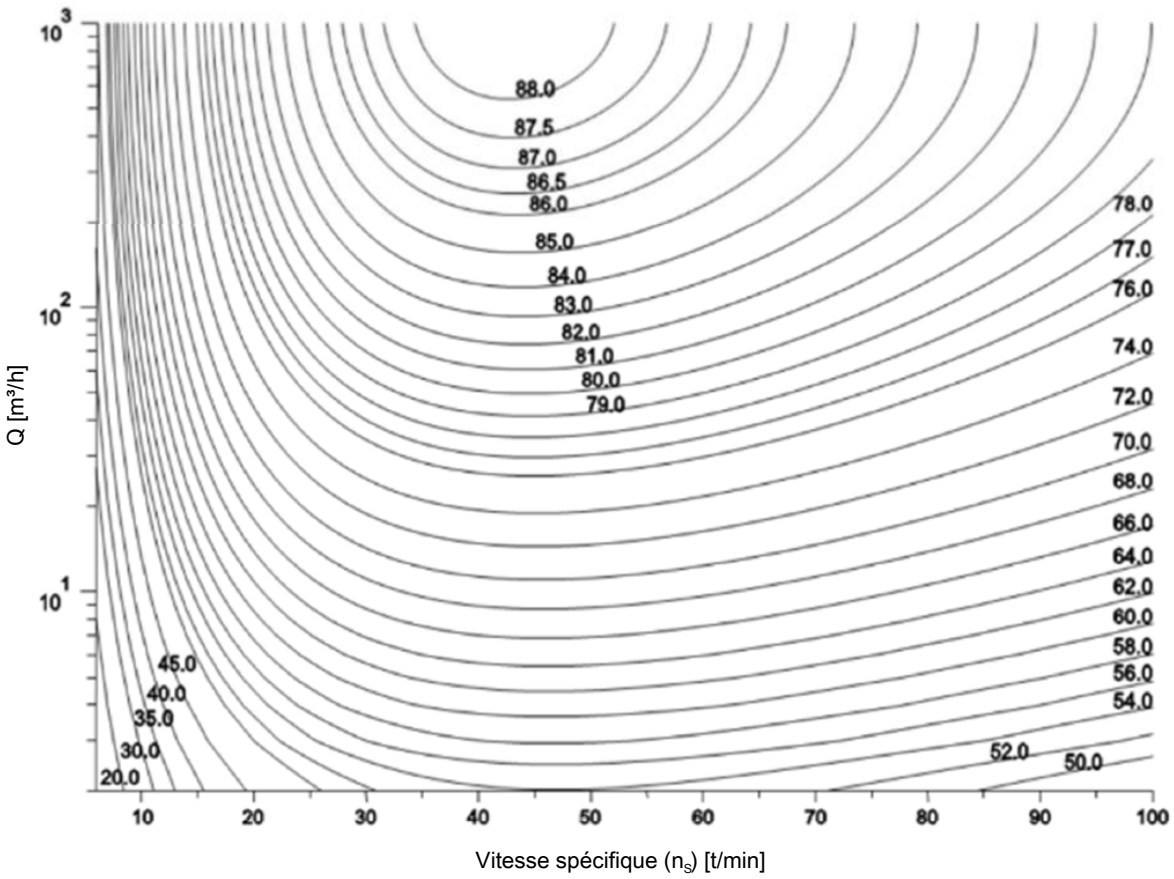
ESOB



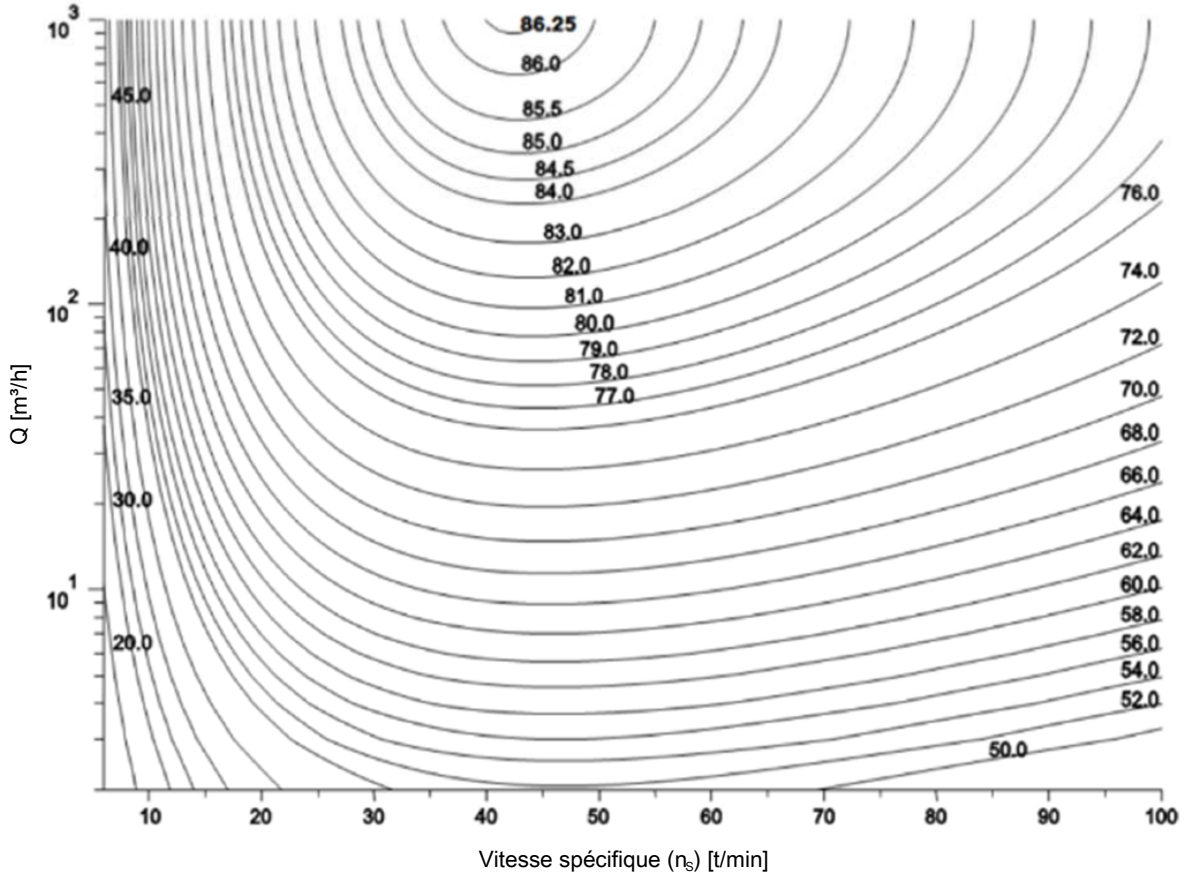
III. 1: ESOB, MEI 0,4, 1450 t/min



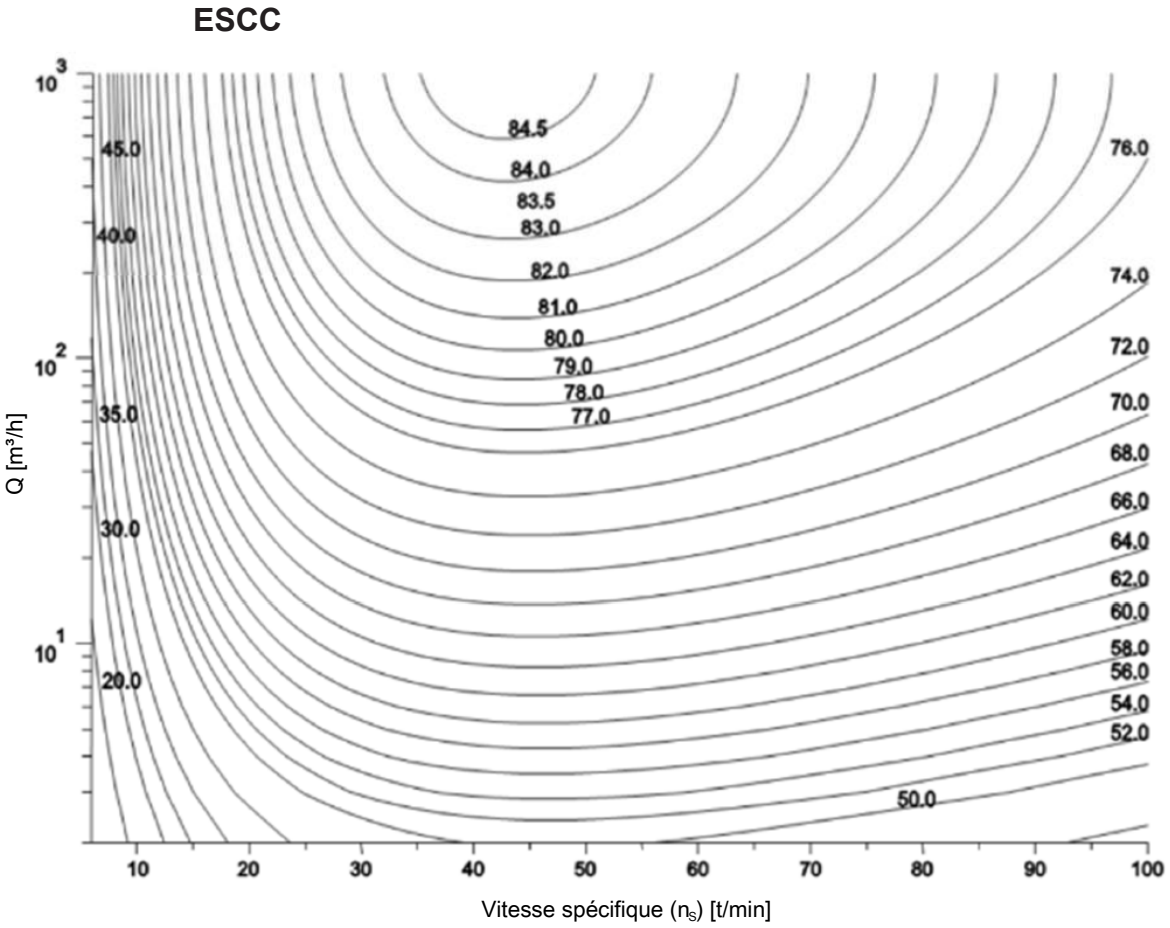
III. 2: ESOB, MEI 0,4, 2900 t/min



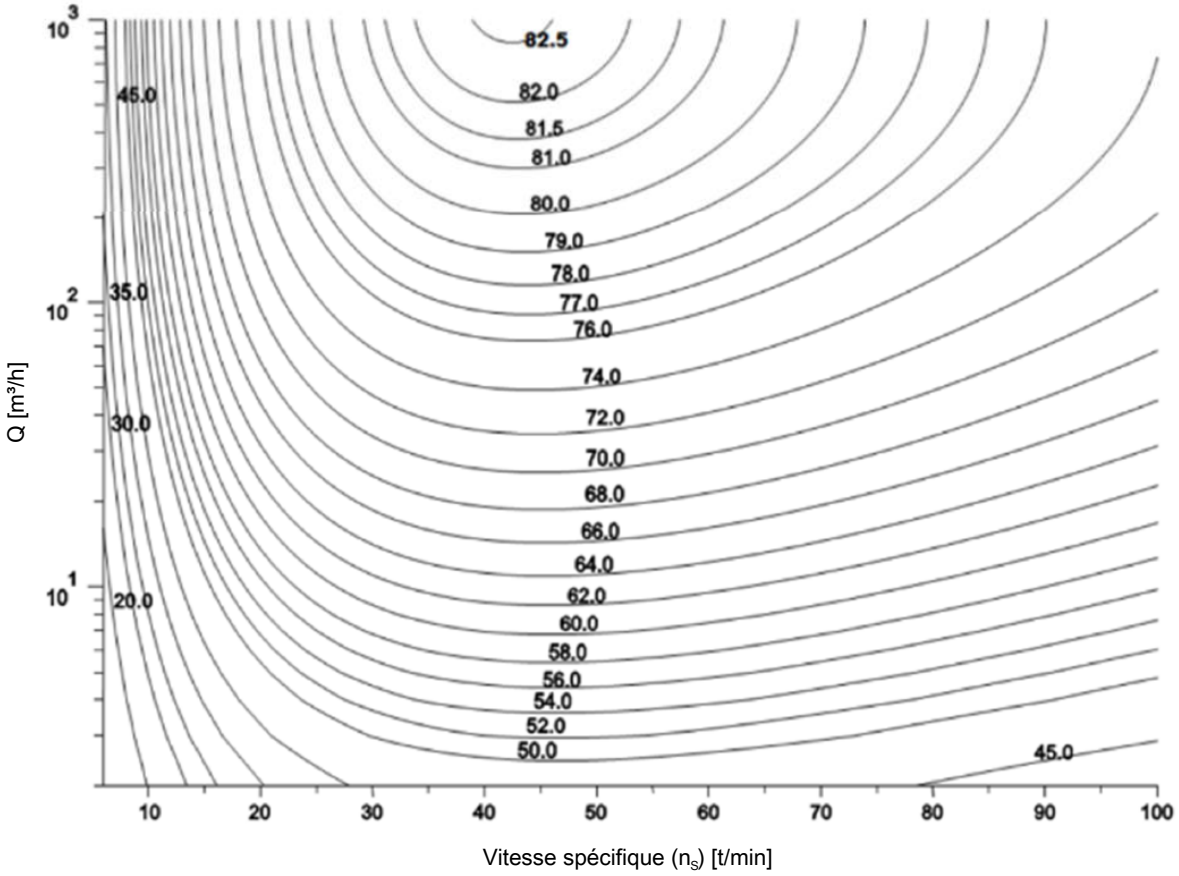
III. 3: ESOB, MEI 0,7, 1450 t/min



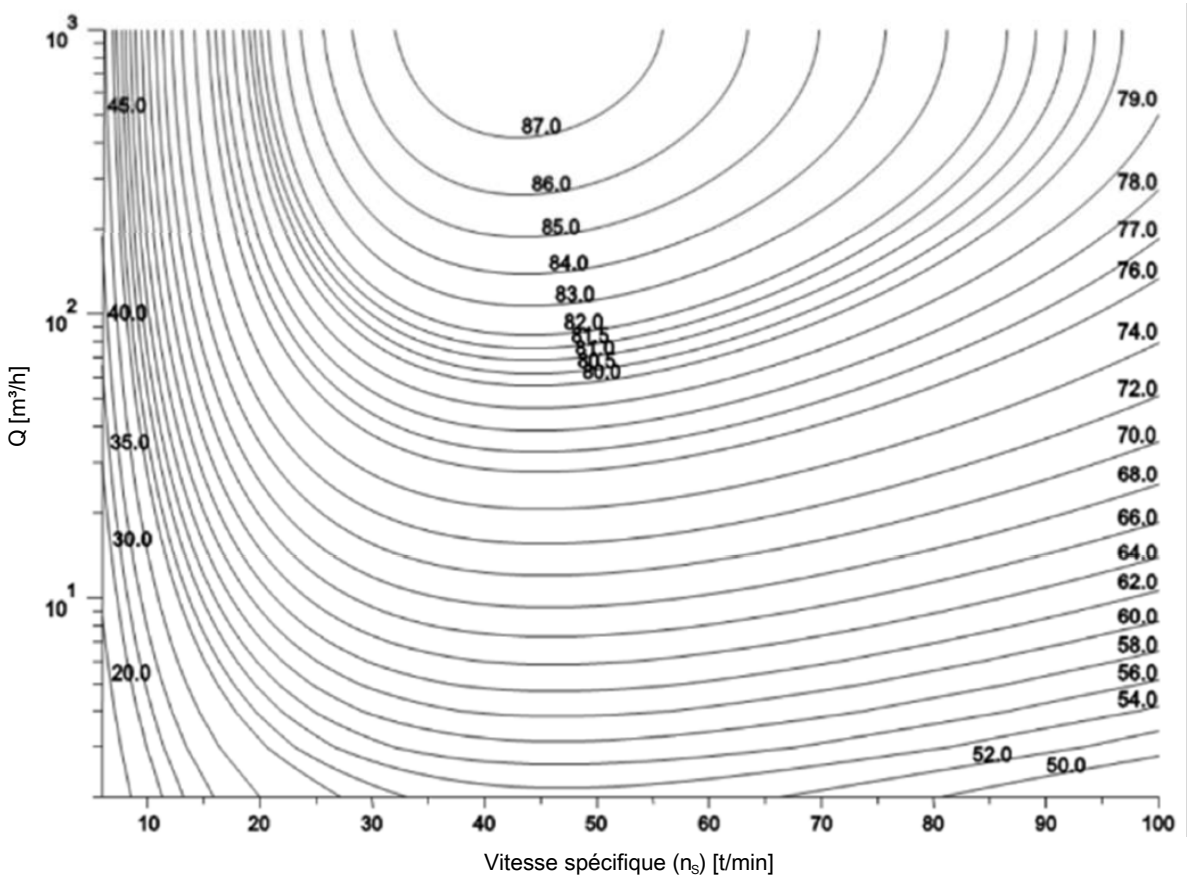
III. 4: ESOB, MEI 0,7, 2900 t/min



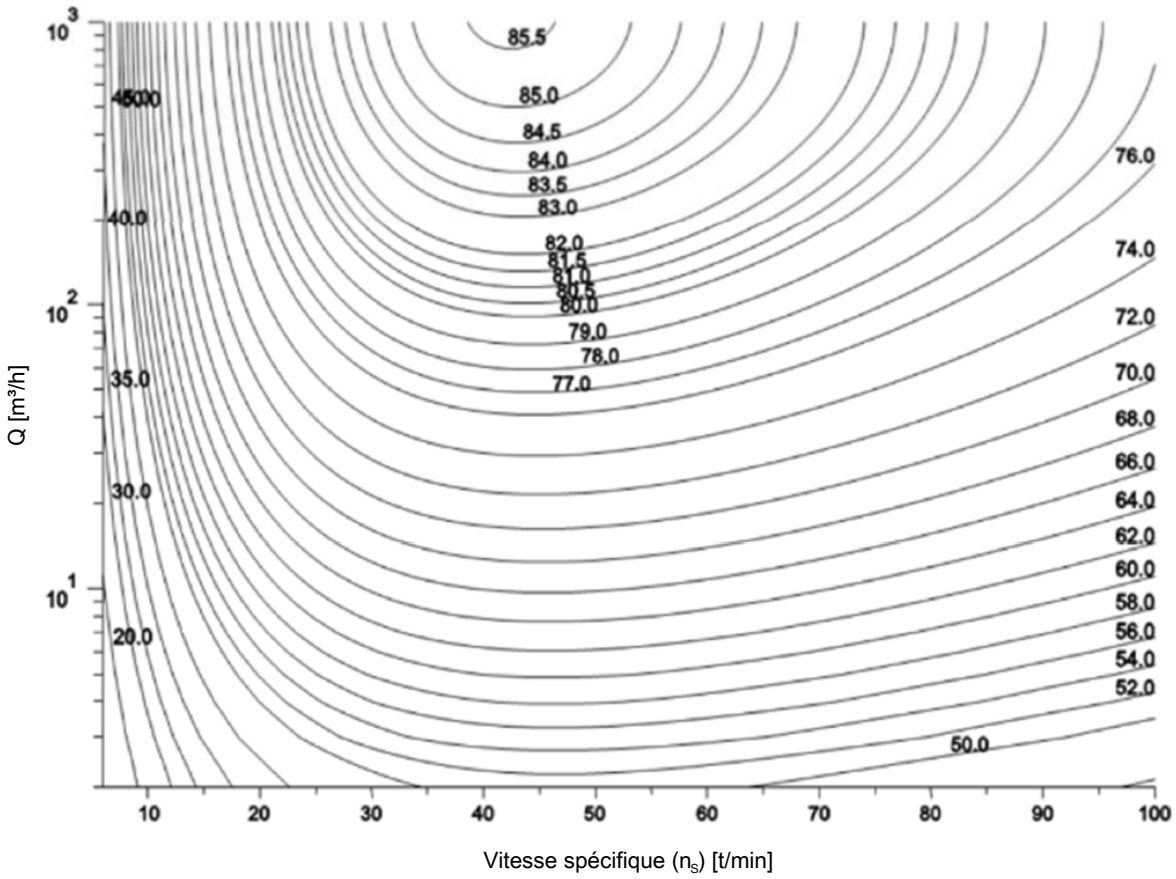
III. 5: ESCC, MEI 0,4, 1450 t/min



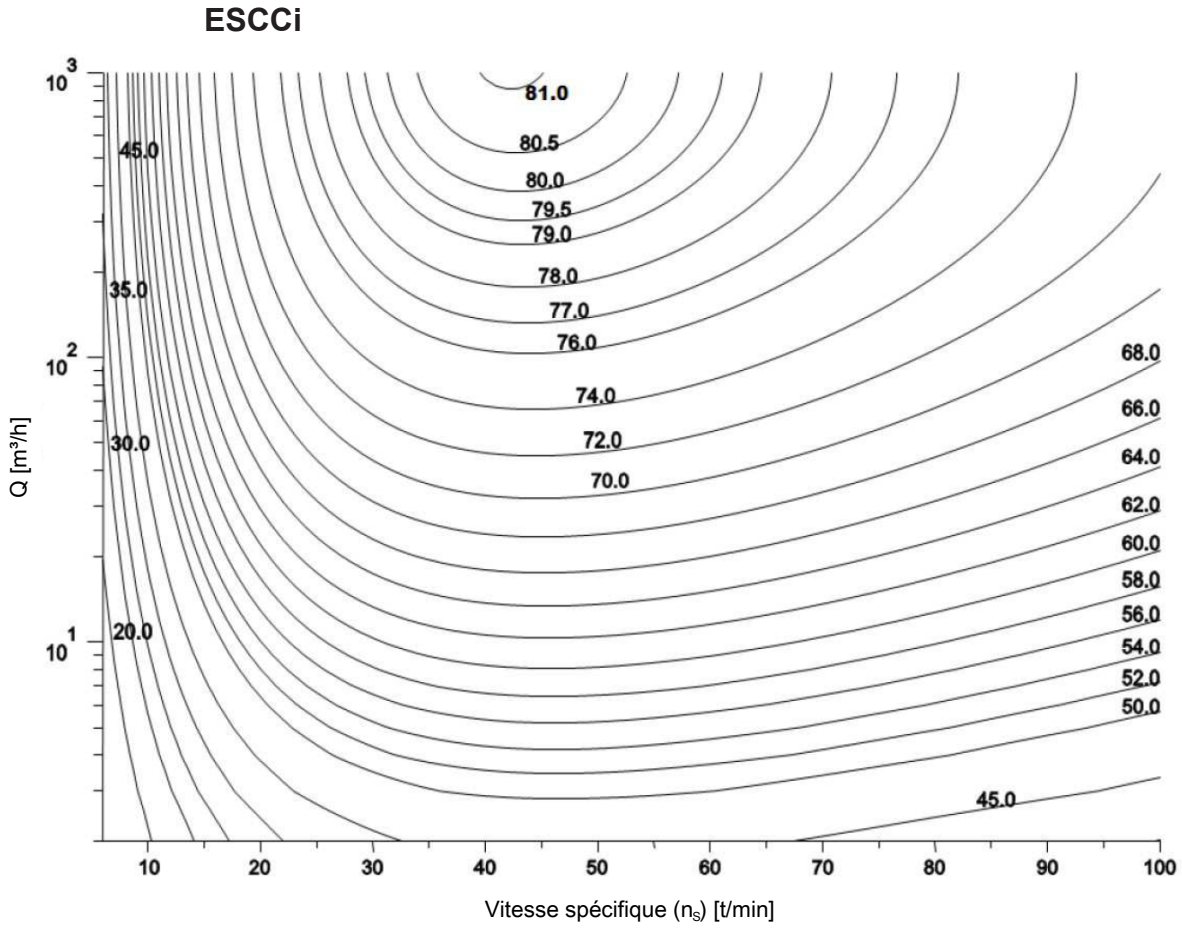
III. 6: ESCC, MEI 0,4, 2900 t/min



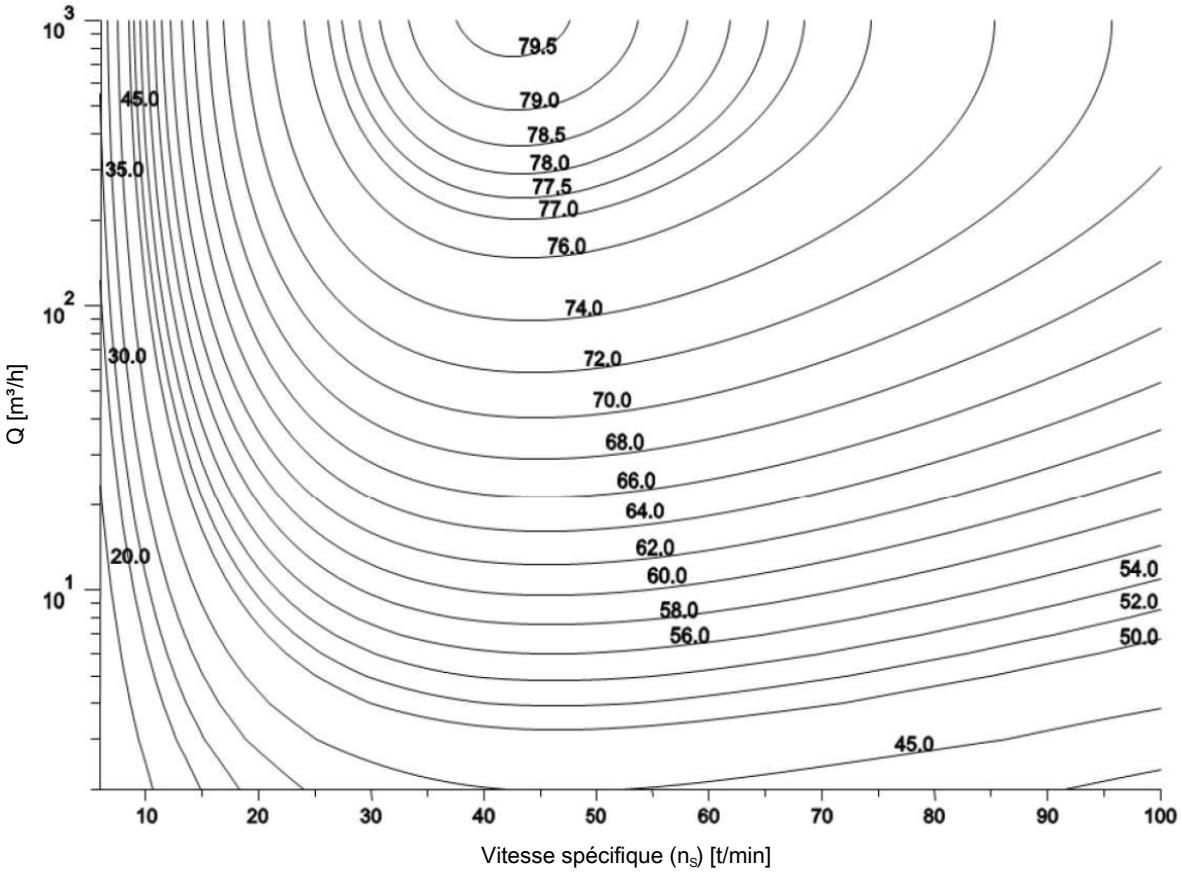
III. 7: ESCC, MEI 0,7, 1450 t/min



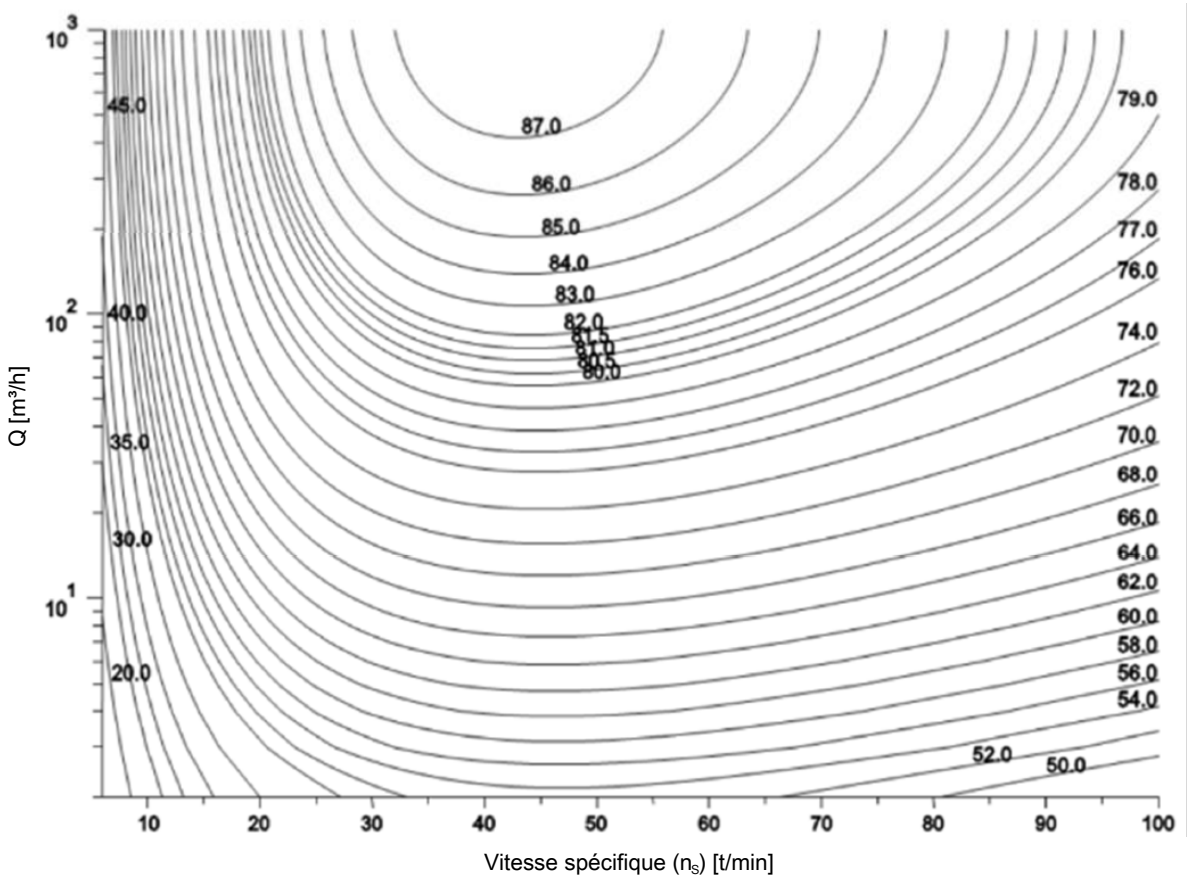
III. 8: ESCC, MEI 0,7, 2900 t/min



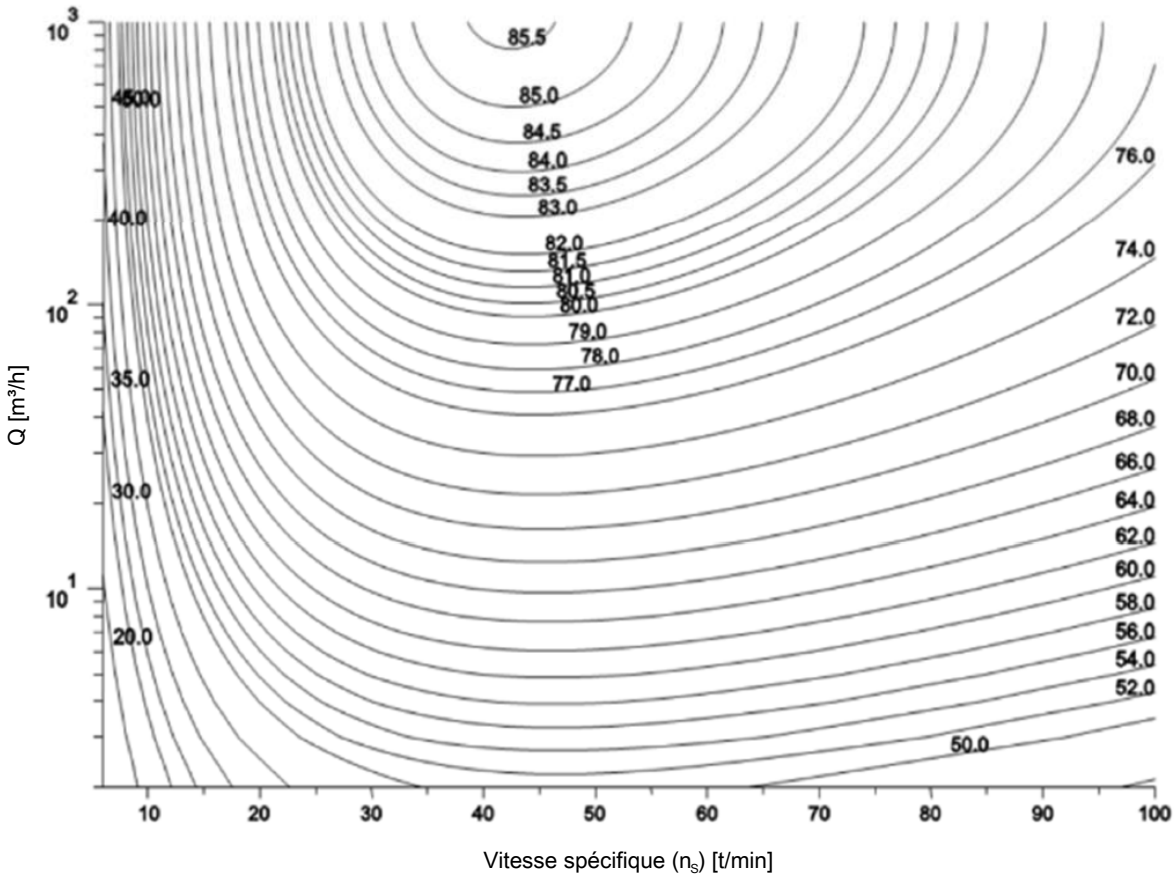
III. 9: ESCCi, MEI 0,4, 1450 t/min



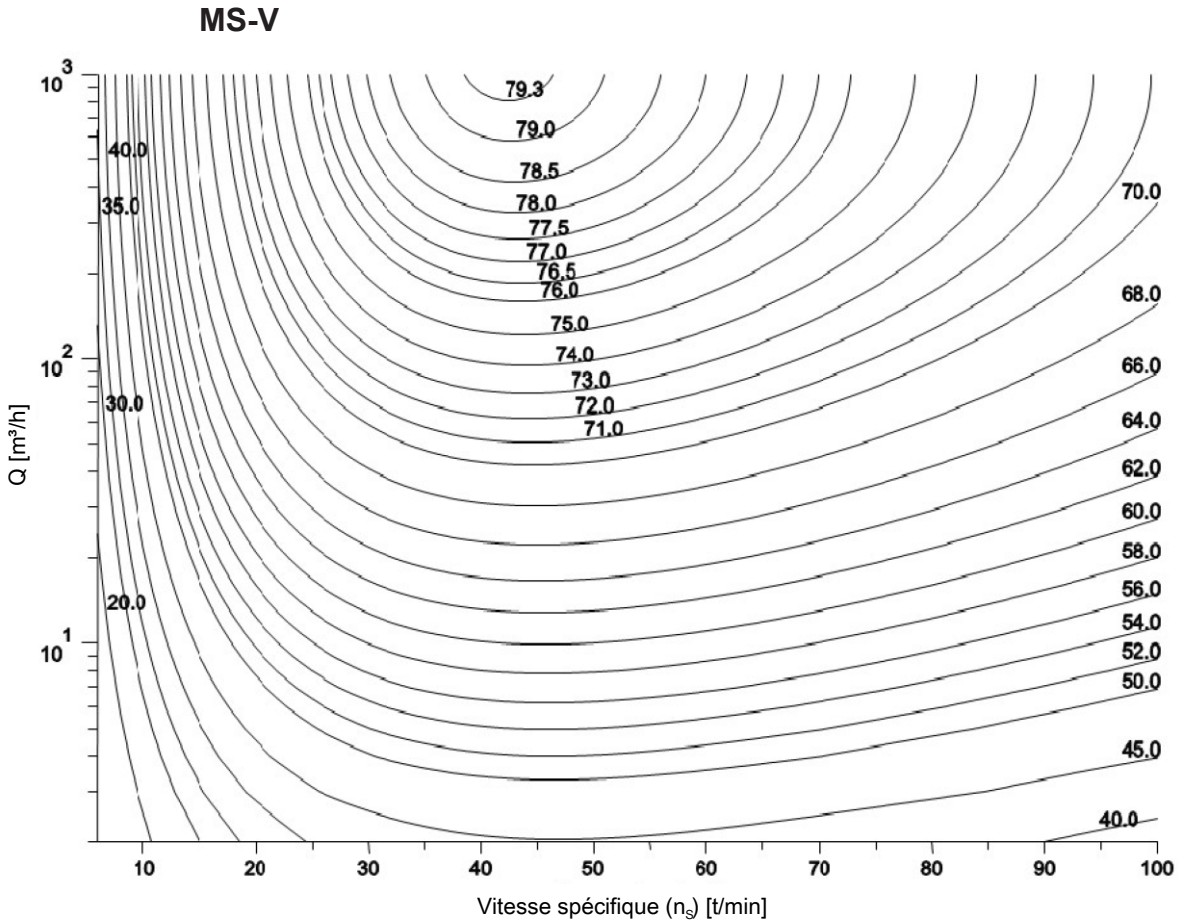
III. 10: ESCCi, MEI 0,4, 2900 t/min



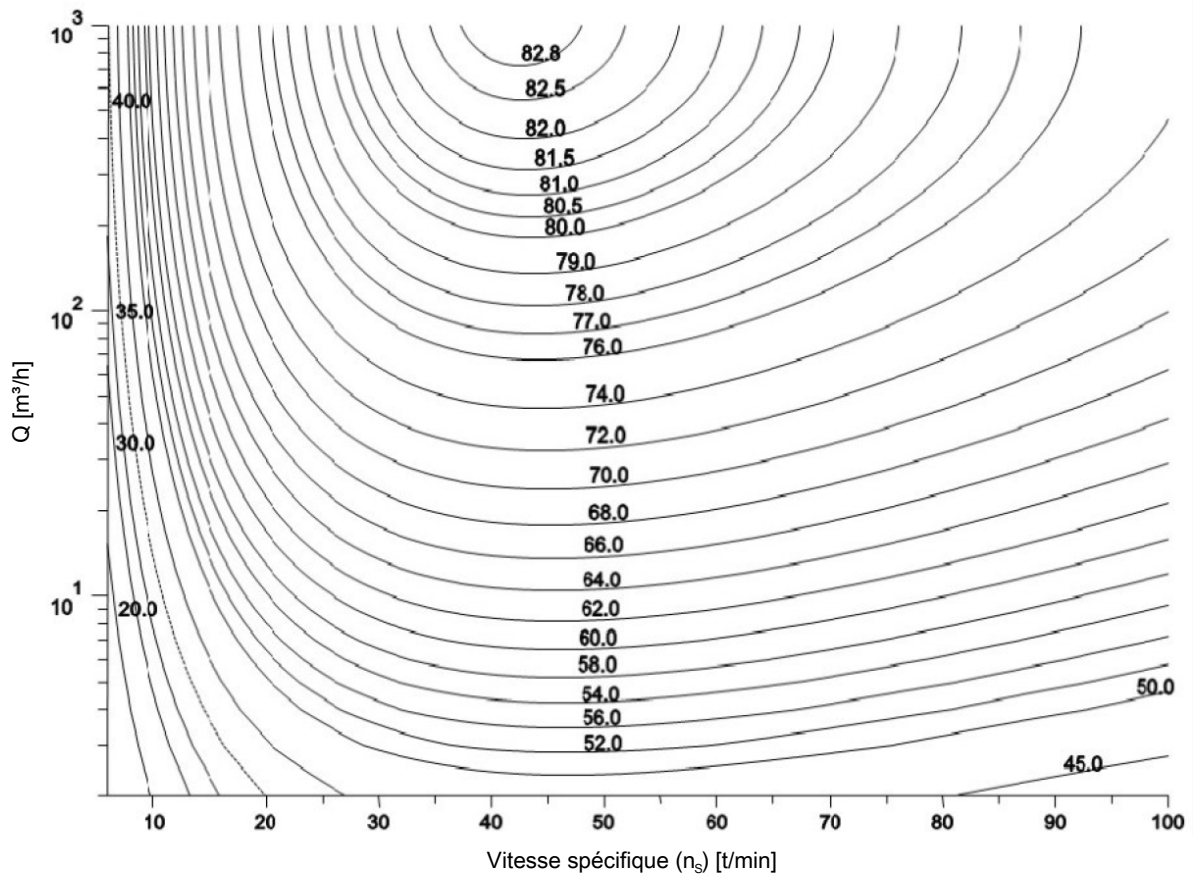
III. 11: ESCC, MEI 0,7, 1450 t/min



III. 12: ESCC, MEI 0,7, 2900 t/min

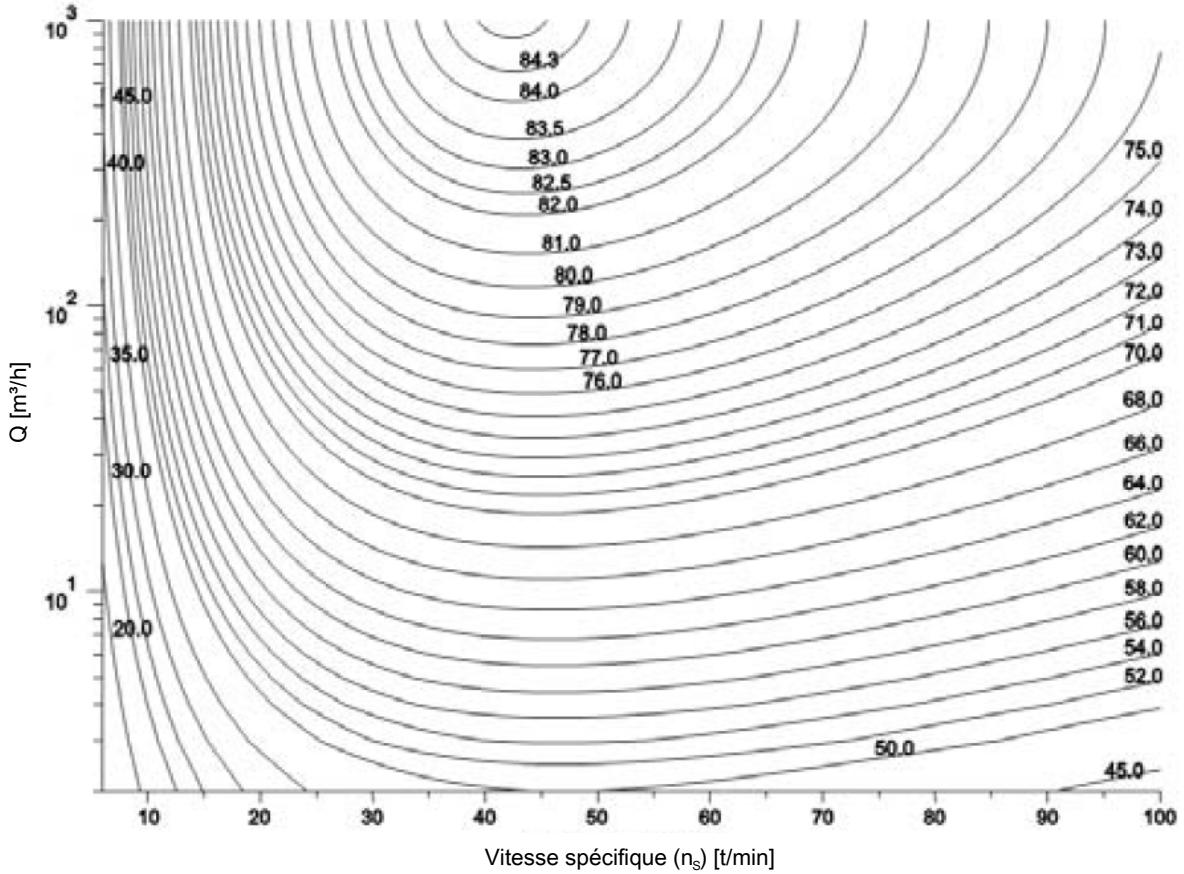


III. 13: MS-V, MEI 0,4, 2900 t/min

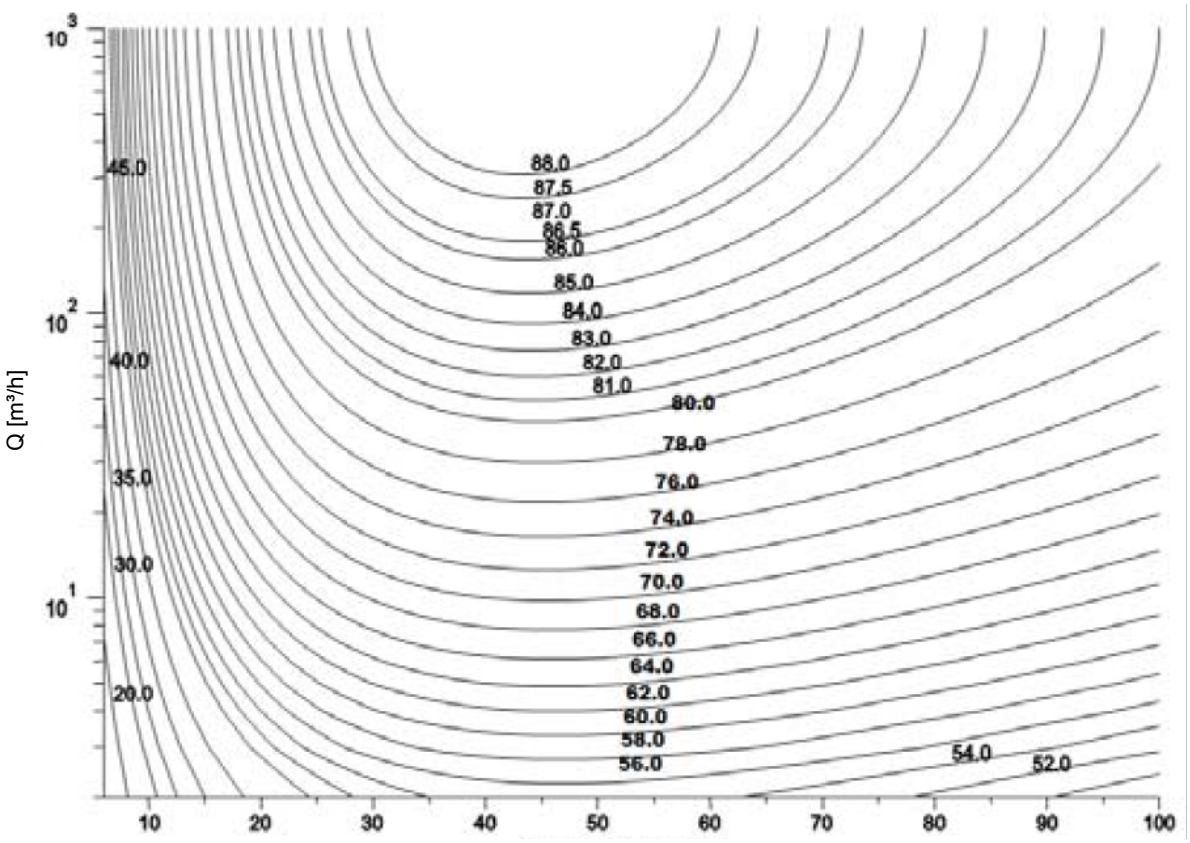


III. 14: MS-V, MEI 0,7, 2900 t/min

MS-S



III. 15: MS-S, MEI 0,4, 2900 t/min



III. 16: MS-S, MEI 0,7, 2900 t/min