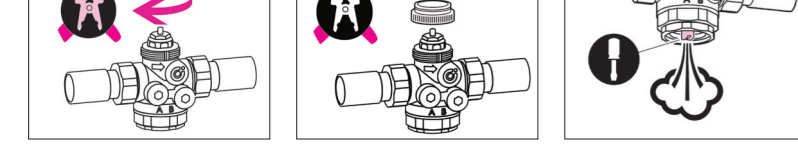
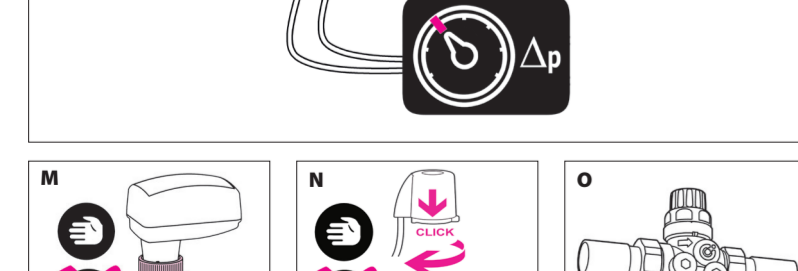
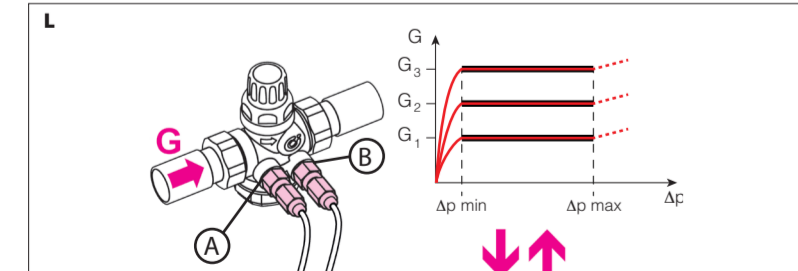
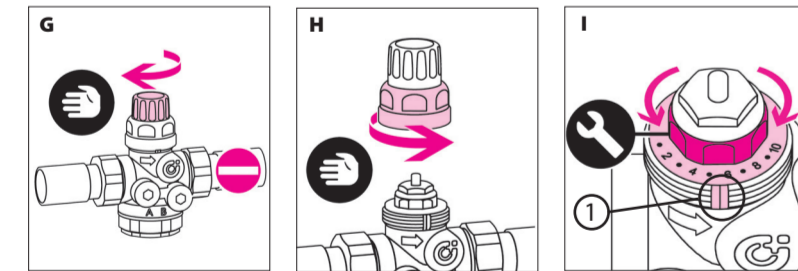
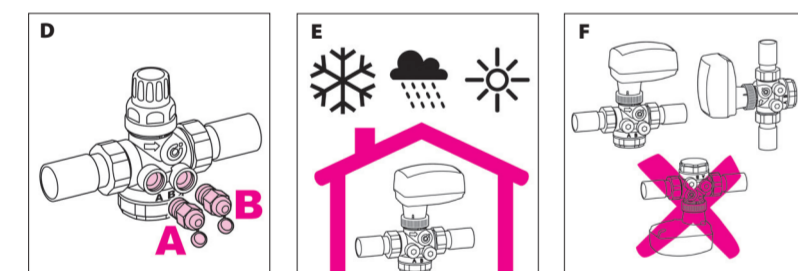
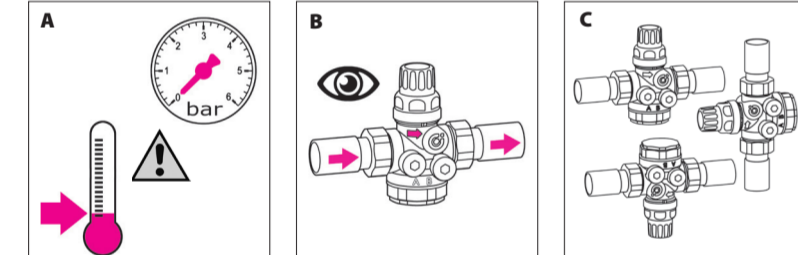


Caleffi Hydraulic Solutions logo and navigation menu with icons for manual, warning, and help.

Tab. 1 performance table for model 14530 H40 to 145660 H12, showing flow rate (m³/h) and GPM for various pressure ranges (Ap min).



ITALIANO I

ISTRUZIONI PER L'INSTALLAZIONE, LA MESSA IN SERVIZIO E LA MANUTENZIONE

Vi ringraziamo per averci preferito nella scelta di questo dispositivo. Ulteriori dettagli tecnici su questo dispositivo sono disponibili sul sito www.caleffi.com.

VALVOLA DI REGOLAZIONE INDEPENDENTE DALLA PRESSIONE (PICV) FLOWMATIC

Avvertenze

Le seguenti istruzioni devono essere lette e comprese prima dell'installazione e della manutenzione del prodotto. Il simbolo significa: ATTENZIONE UNA MANCANZA NEL SEGUIRE QUESTE ISTRUZIONI POTREBBE ORIGINARE PERICOLI!

Sicurezza

È obbligatorio ripetere le istruzioni per la sicurezza riportate sul documento specifico in confezione.

Funzione

La valvola di regolazione indipendente dalla pressione (PICV) mantiene costante la portata di fluido termovettore alle varie condizioni di pressione differenziale del circuito idraulico in cui è installata. Il valore della portata può essere preimpostato manualmente ed è controllato per mezzo di un attuatore. È utilizzabile negli impianti di climatizzazione.

Caratteristiche tecniche

Corpo: lega antiscalfatura CR EN 12165 CW602N
Materiali: decinzionizzazione zincata CR EN 12165 CW602N
Vite: lega antiscalfatura CR EN 12165 CW602N

Operazione (fig. G-H-I-L)

Il dispositivo non può essere installato con l'attuatore incorporato (fig. G).

Funzionamento (fig. G-H-I-L)

Interconnessione della portata (fig. H)

Regolazione della portata massima costante (fig. I)

Verifica della portata selezionata

Inserire a blocco l'adattatore del flessibile a raccordo rosso nella presa a monte (A), verde nella presa a valle (B).

Regolazione automatica della portata con attuatore a regolatore esterno (fig. M-N)

Innestsia sulla valvola l'attuatore di comando (cod. 145013/014) avviando manualmente (fig. M).

Mantenimento (fig. O)

Esvuotare l'aria accumulata nella parte inferiore del corpo del dispositivo allentando con un cacciavite la vite senza rimuoverla. Al termine dell'operazione navitare a battuta (fig. N).

ENGLISH EN

INSTRUCTIONS FOR INSTALLATION, COMMISSIONING AND MAINTENANCE

Thank you for choosing our product. Further technical details relating to this device are available at www.caleffi.com.

PRESSURE INDEPENDENT CONTROL VALVE (PICV) FLOWMATIC

Warnings

The following instructions must be read and understood before installing and maintaining the product. The symbol means: CAUTION! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN A SAFETY HAZARD!

Safety

The instructions provided in the specific document supplied must be observed.

Function

The pressure independent control valve (PICV) maintains the flow rate of the thermal medium at a constant level, even when the differential pressure conditions in the hydraulic circuit to which it is fitted vary.

Technical specifications

Body: dezincification resistant alloy CR EN 12165 CW602N
Headwork: dezincification resistant alloy CR EN 12165 CW602N
Control stem and piston: stainless steel EN 10088-3 (AISI 303)

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

FRANÇAIS FR

INSTRUCTIONS POUR L'INSTALLATION, LA MISE EN SERVICE ET L'ENTRETIEN

Nous vous remercions d'avoir choisi ce produit. Pour de plus amples informations sur ce dispositif, veuillez consulter le site www.caleffi.com.

PRESSURE INDEPENDENT CONTROL VALVE (PICV) FLOWMATIC

Avertissements

Avant de réaliser l'installation et le montage du produit, vous devez lire et comprendre les instructions. Le symbole signifie: ATTENTION! LE NON-RESPECT DE CES CONSIGNES PEUT ENTRÂNER UNE MISE EN DANGER!

Sécurité

Respecter impérativement les consignes de sécurité indiquées sur le document qui accompagne le dispositif.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Caractéristiques techniques

Corps: laton antiscalfatura CR EN 12165 CW602N
Mecanisme: laton antiscalfatura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

DEUTSCH DE

INSTALLATION, INBETRIEBNAHME UND WARTUNG

Wir bedanken uns, dass Sie sich für unser Produkt entschieden haben. Weitere technische Details zu diesem Gerät finden Sie unter www.caleffi.com.

DRUCKUNABHÄNGIGES REGELVENTIL (PICV) FLOWMATIC

Hinweis

Die folgenden Anweisungen müssen vor Installation und Wartung des Gerätes gelesen und verstanden worden sein. Das Symbol bedeutet: ACHTUNG! EINE MISSACHTUNG DIESER ANWEISUNGEN KANN FÜR GEFAHRSTANDSVERURSACHEN.

Sicherheit

Sieher in der beigelegten Dokumentation enthaltenen Sicherheitsanweisungen müssen beachtet werden.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Caractéristiques techniques

Corps: laton antiscalfatura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

ESPAÑOL ES

INSTRUCCIONES DE INSTALACIÓN, PUESTA EN FUNCIONAMIENTO Y MANTENIMIENTO

Gracias por escoger un producto de nuestra marca. Encuentra más información sobre este dispositivo en la página www.caleffi.com.

VÁLVULA DE CONTROL INDEPENDENTE DE LA PRESIÓN (PICV) FLOWMATIC

Advertencias

Antes de realizar la instalación y el mantenimiento del producto, es indispensable leer y comprender las siguientes instrucciones. El símbolo significa: ATENCIÓN! EL INCUMPLIMIENTO DE ESTAS INSTRUCCIONES PODRÍA ORIGINAR UNA SITUACIÓN DE PELIGRO!

Seguridad

Es obligatorio respetar las instrucciones de seguridad indicadas en el documento específico que se suministra con el producto.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Caractéristiques técnicas

Corpo: alicação antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

PORTUGUÊS PT

INSTRUÇÕES PARA A INSTALAÇÃO, COLOCAÇÃO EM FUNCIONAMENTO E MANUTENÇÃO

Agradecemos a preferência na seleção deste produto. Dados técnicos adicionais sobre este dispositivo encontram-se disponíveis no site www.caleffi.com.

VÁLVULA DE REGULAÇÃO INDEPENDENTE DA PRESSÃO (PICV) FLOWMATIC

Advertências

Antes de realizar a instalação e o manutenção do produto, é indispensável ler e compreender as seguintes instruções. O símbolo significa: ATENÇÃO! O INCUMPRIMENTO DESTAS INSTRUÇÕES PODERÁ ORIGINAR UMA SITUAÇÃO DE PERIGO!

Segurança

É obrigatório respeitar as instruções de segurança indicadas no documento específico contido na embalagem.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Características técnicas

Corpo: liga antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

COMPATIBLE ACTUATORS

DRUKONAFHANKELIJK REGELVENTIEL (PICV) FLOWMATIC

Waarschuwingen

Deze instructies moeten met begrip gelezen worden voordat het toestel wordt geïnstalleerd en er onderhoud wordt gepleegd. Het symbool betekent: LET OP! NIET NALEVEN VAN DEZE INSTRUCTIES KAN GEVAAR OPLEVEN.

Veiligheid

Het is verplicht om de veiligheidsinstructies op het specifieke document in de verpakking na te lezen.

DRUKONAFHÄNGIGES REGELVENTIL (PICV) FLOWMATIC

Warnungen

Die folgenden Anweisungen müssen vor Installation und Wartung des Gerätes gelesen und verstanden worden sein. Das Symbol bedeutet: ACHTUNG! EINE MISSACHTUNG DIESER ANWEISUNGEN KANN FÜR GEFAHRSTANDSVERURSACHEN.

Sicherheit

Sieher in der beigelegten Dokumentation enthaltenen Sicherheitsanweisungen müssen beachtet werden.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Características técnicas

Corpo: liga antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

RUSSКИЙ RU

ИНСТРУКЦИЯ ПО МОНТАЖУ, ПУСКУ И ЭКСПЛУАТАЦИИ И ТЕХНИЧЕСКОМУ ОБСЛУЖИВАНИЮ

Благодарим Вас за выбор нашего изделия. Для дополнительной технической информации по данному устройству обращайтесь к Интернет-сайту www.caleffi.com.

РЕГУЛИРОВОЧНЫЙ КЛАПАН, НЕЗАВИСИМОСТИ ОТ ДАВЛЕНИЯ (PICV) FLOWMATIC

Предупреждения

Данные инструкции должны быть прочитаны и усвоены до начала монтажа и технического обслуживания изделия. Символ означает: ВНИМАНИЕ! НЕСООБЛЮЖДЕНИЕ ДАННЫХ ИНСТРУКЦИЙ МОЖЕТ ПРИВЕСТИ К СОЗДАНИЮ ОПАСНЫХ СИТУАЦИЙ!

Безопасность

Обязательно соблюдать инструкции по безопасности, приведенные в специальном документе, входящем в упаковку.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Características técnicas

Corpo: liga antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

ΕΛΛΗΝΙΚΑ EL

ΟΔΗΓΙΕΣ ΕΓΚΑΤΑΣΤΑΣΗΣ, ΘΕΣΗΣ ΣΕ ΛΕΙΤΟΥΡΓΙΑ ΚΑΙ ΣΥΝΤΗΡΗΣΗΣ

Σας ευχαριστούμε που επιλέξατε το προϊόν μας. Περαιτέρω τεχνικές λεπτομέρειες σχετικά με αυτή τη συσκευή είναι διαθέσιμες στον www.caleffi.com.

ΑΥΤΟΝΟΜΗ ΒΑΛΒΙΔΑ ΕΛΕΓΧΟΥ ΠΙΕΣΗΣ (PICV) FLOWMATIC

Προειδοτήσεις

Οδηγίες και πληροφορίες σχετικά με τον ασφαλή τρόπο εγκατάστασης και τη συντήρηση του προϊόντος. Το σύμβολο ⚠️ σημαίνει: ΠΡΟΣΧΕΙΜ! ΑΝΟ ΗΤΑ ΑΣΕΤΗΣ ΔΙΑΤΗΝ ΤΟΝ ΟΧΗΜΑΤΟΝ ΘΑ ΜΠΩΡΕΙΣ ΝΑ ΠΡΟΚΛΗΣΕΙΣ ΚΑΤΑΣΤΑΣΗ ΑΝΑΡΧΙΑΣ!

Ασφάλεια

Πριν απ τη χρήση ο οδηγός να τη ασφαλεία να παραβιαστεί στο ελάχιστο επίπεδο της συνσκευασίας.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Características técnicas

Corpo: liga antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

DANSK DA

VEJLEDNING TIL INSTALLATION, IDRIFTSÆTTELSE OG VEDLIGEHOLDELSE

Tak fordi du har valgt vores produkt. Yderligere tekniske oplysninger vedrørende dette udstyr kan findes på www.caleffi.com.

TRYKUAHÆNGIG REGULERINGSVENTIL (PICV) FLOWMATIC

Advarsler

De følgende anvisninger skal være læst og forstået, før produktet installeres og vedligeholdes. Symbolet ⚠️ betyder: ADVARSEL! MANGLEDEN OVERHOLDELSE AF DISSE ANVISNINGER KAN MEDFØRE SIKKERHEDSFARE!

Sikkerhed

Sikkerhedsanvisningerne i det særskilte udeliveredokument skal overholdes.

Vanne de régulation à équilibrage automatique (PICV) FLOWMATIC

Características técnicas

Corpo: liga antidescalfadura CR EN 12165 CW602N

Operation (fig. G-H-I-L)

Flow rate shut-off (fig. G)

Maximum constant flow rate regulation (fig. H)

Functioning (fig. G-H-I-L)

Setting the selected flow rate (fig. I)

Automatic flow rate regulation with actuator and external regulator (fig. M-N)

Fit the control actuator (code 145013/014) to the valve by screwing it on manually (fig. M).

Maintenance (fig. O)

Remove the air which has accumulated at the top of the device body by using a screwdriver to loosen the screw, without removing it. Fully re-tighten at the end of the procedure (fig. O).

145430 H40	DN 15 / 3/8"	0,08–0,40 m ³ /h
145430 H80	DN 15 / 3/8"	0,08–0,80 m ³ /h
145440 H40	DN 15 / 1/2"	0,08–0,40 m ³ /h
145440 H80	DN 15 / 1/2"	0,08–0,80 m ³ /h
145550 H40	DN 20 / 3/4"	0,08–0,40 m ³ /h
145550 H80	DN 20 / 3/4"	0,08–0,80 m ³ /h
145550 H12	DN 20 / 3/4"	0,12–1,20 m ³ /h
145550 H14	DN 25 / 3/4"	0,18–1,80 m ³ /h
145560 H40	DN 20 / 1"	0,08–0,40 m ³ /h
145560 H80	DN 20 / 1"	0,08–0,80 m ³ /h
145560 H12	DN 20 / 1"	0,12–1,20 m ³ /h

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TAB.1	1	2	3	4	5	6	7	8	9	10
0,02–0,20 (m³/h)	0,02	0,04	0,06	0,08	0,10	0,12	0,14	0,16	0,18	0,20
0,09–0,90 (GPM)	0,09	0,18	0,27	0,36	0,45	0,54	0,63	0,72	0,81	0,90
Ap min (kPa)	25	25	25	25	25	25	25,5	25,5	26	26
(psi)	3,6	3,6	3,6	3,6	3,6	3,6	3,7	3,7	3,8	3,8

0,08–0,40 (m³/h)	–	0,08	0,16	0,16	0,20	0,24	0,28	0,32	0,36	0,40
0,35–1,75 (GPM)	–	0,35	0,53	0,70	0,88	1,05	1,23	1,40	1,58	1,75
Ap min (kPa)	–	25	25,5	26	26	26,5	26,5	27	27	27
(psi)	–	3,6	3,7	3,8	3,8	3,8	3,8	3,9	3,9	3,9

0,08–0,80 (m³/h)	0,08	0,16	0,24	0,32	0,40	0,48	0,56	0,64	0,72	0,80
0,35–3,50 (GPM)	0,35	0,70	1,05	1,40	1,75	2,10	2,45	2,80	3,15	3,50
Ap min (kPa)	25	25,5	26	26	27	27,5	28	28,5	29	29
(psi)	3,6	3,6	3,7	3,8	3,8	3,9	4,0	4,1	4,1	4,2

0,12–1,20 (m³/h)	0,12	0,24	0,36	0,48	0,60	0,72	0,84	0,96	1,08	1,20
0,53–5,30 (GPM)	0,53	1,06	1,59	2,12	2,65	3,18	3,71	4,24	4,77	5,30
Ap min (kPa)	25	25,5	26	26	26,5	26,5	27	27,5	28	28
(psi)	3,6	3,6	3,7	3,8	3,8	3,8	3,8	3,9	4,0	4,1

0,18–1,80 (m³/h)	0,18	0,36	0,54	0,72	0,90	1,08	1,26	1,44	1,62	1,80
0,80–8,00 (GPM)	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
Ap min (kPa)	35	35	35	35	35	35	35	35	35	35
(psi)	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1

0,30–3,00 (m³/h)	0,30	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00
1,30–13,00 (GPM)	1,30	2,60	3,90	5,20	6,50	7,80	9,10	10,40	11,70	13,00
Ap min (kPa)	35	35	35	35	35	35	35	35	35	35
(psi)	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1

0,37–3,70 (m³/h)	0,37	0,74	1,11	1,48	1,85	2,22	2,59	2,96	3,33	3,70
1,65–16,50 (GPM)	1,65	3,30	4,95	6,60	8,25	9,90	11,55	13,20	14,85	16,50
Ap min (kPa)	6,96	6,96	6,96	6,96	6,53	6,53	6,24	6,24	6,24	6,24
(psi)	6,96	6,96	6,96	6,96	6,53	6,53	6,24	6,24	6,24	6,24

145... H20	145... H40	145... H80	145... H12	145... H18	145... H24	145... H30	145... H36
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A	B	C

D	E	F

G	H	I

J	K	L

M	N	O

P	Q	R

S	T	U

V	W	X

145660 H18	DN 25 / 1"	0,18–1,80 m ³ /h
145660 H30	DN 25 / 1"	0,30–3,00 m ³ /h
145660 H40	DN 25 / 1 1/4"	0,30–1,80 m ³ /h
145660 H80	DN 25 / 1 1/4"	0,30–3,00 m ³ /h
145660 H12	DN 20 / 1"	0,12–1,20 m ³ /h

www.caleffi.com

TAB.1	1	2	3	4	5	6	7	8	9	10
0,02–0,20 (m³/h)	0,02	0,04	0,06	0,08	0,10	0,12	0,14	0,16	0,18	0,20
0,09–0,90 (GPM)	0,09	0,18	0,27	0,36	0,45	0,54	0,63	0,72	0,81	0,90
Ap min (kPa)	25	25	25	25	25	25	25,5	25,5	26	26
(psi)	3,6	3,6	3,6	3,6	3,6	3,6	3,7	3,7	3,8	3,8

0,08–0,40 (m³/h)	–	0,08	0,16	0,16	0,20	0,24	0,28	0,32	0,36	0,40
0,35–1,75 (GPM)	–	0,35	0,53	0,70	0,88	1,05	1,23	1,40	1,58	1,75
Ap min (kPa)	–	25	25,5	26	26	26,5	26,5	27	27	27
(psi)	–	3,6	3,7	3,8	3,8	3,8	3,8	3,9	3,9	3,9

0,08–0,80 (m³/h)	0,08	0,16	0,24	0,32	0,40	0,48	0,56	0,64	0,72	0,80
0,35–3,50 (GPM)	0,35	0,70	1,05	1,40	1,75	2,10	2,45	2,80	3,15	3,50
Ap min (kPa)	25	25,5	26	26	27	27,5	28	28,5	29	29
(psi)	3,6	3,6	3,7	3,8	3,8	3,9	4,0	4,1	4,1	4,2

0,12–1,20 (m³/h)	0,12	0,24	0,36	0,48	0,60	0,72	0,84	0,96	1,08	1,20
0,53–5,30 (GPM)	0,53	1,06	1,59	2,12	2,65	3,18	3,71	4,24	4,77	5,30
Ap min (kPa)	25	25,5	26	26	26,5	26,5	27	27,5	28	28
(psi)	3,6	3,6	3,7	3,8	3,8	3,8	3,8	3,9	4,0	4,1

0,18–1,80 (m³/h)	0,18	0,36	0,54	0,72	0,90	1,08	1,26	1,44	1,62	1,80
0,80–8,00 (GPM)	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
Ap min (kPa)	35	35	35	35	35	35	35	35	35	35
(psi)	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1

0,30–3,00 (m³/h)	0,30	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00
1,30–13,00 (GPM)	1,30	2,60	3,90	5,20	6,50	7,80	9,10	10,40	11,70	13,00
Ap min (kPa)	35	35	35	35	35	35	35	35	35	35
(psi)	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1	5,1

0,37–3,70 (m³/h)	0,37	0,74	1,11	1,48	1,85	2,22	2,59	2,96	3,33	3,70
1,65–16,50 (GPM)	1,65	3,30	4,95	6,60	8,25	9,90	11,55	13,20	14,85	16,50
Ap min (kPa)	6,96	6,96	6,96	6,96	6,53	6,53	6,24	6,24	6,24	6,24
(psi)	6,96	6,96	6,96	6,96	6,53	6,53	6,24	6,24	6,24	6,24

145... H20	145... H40	145... H80	145... H12	145... H18	145... H24	145... H30	145... H36
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A	B	C

D	E	F

G	H	I

J	K	L

M	N	O

P	Q	R

S	T	U

V	W	X

145437 H20	DN 15 / 1/2"	0,02–0,20 m ³ /h
145447 H40	DN 15 / 3/4"	0,08–0,40 m ³ /h
145447 H80	DN 15 / 3/4"	0,08–0,80 m ³ /h
145557 H40	DN 20 / 1"	0,08–0,40 m ³ /h