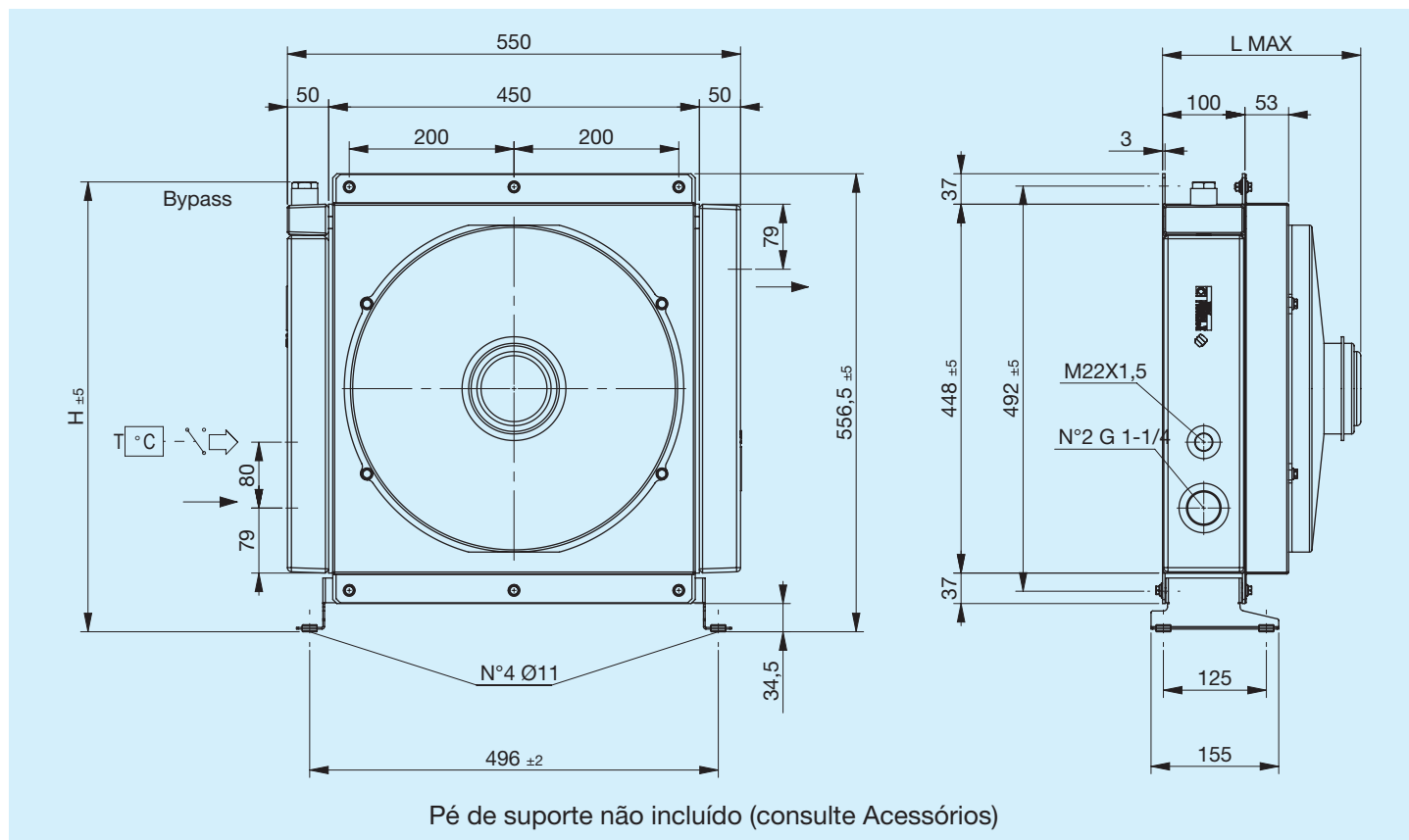


A65

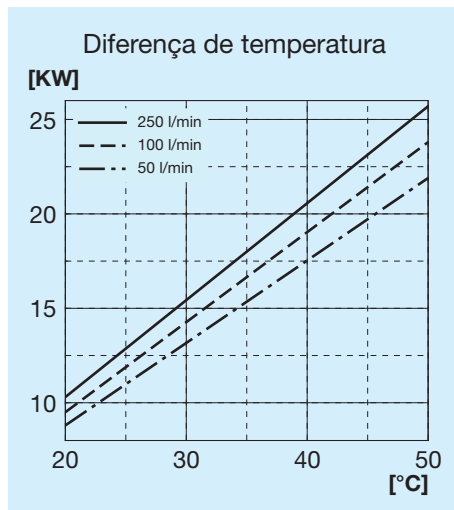


Antes de iniciar a utilização, leia atentamente o documento INSTRUÇÕES GERAIS DE USO PARA PERMUTADORES DE CALOR

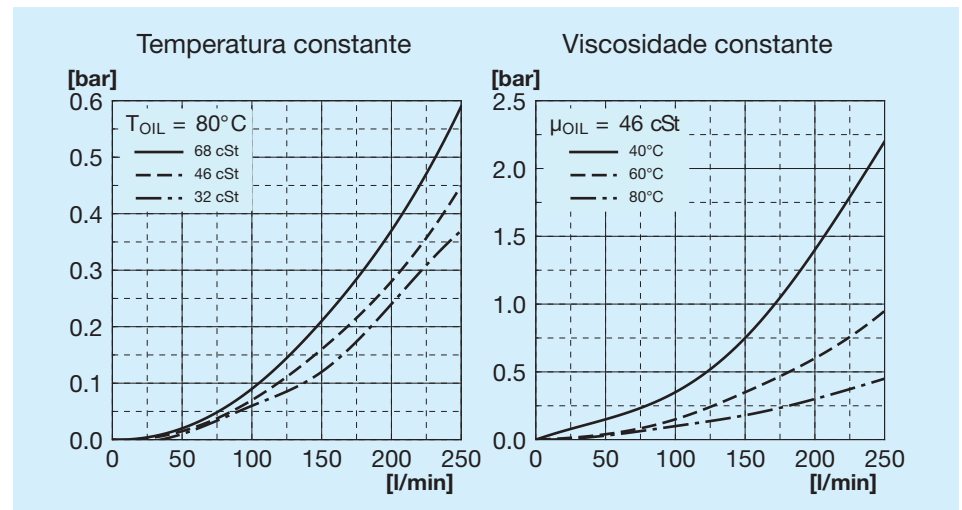


Código	Descrição	Ø Ventilador mm	Caudal de ar m³/h	Tensão V	Corrente A	L Máx mm	H mm	Massa Kg	Capacidade l
FR633123101	A65 1EAX 12V bypass T15 V.T. 3 bar 60°C	385	2850	12	19,7	240	546	20	8.5
FR633123102	A65 1ESX 12V bypass T15 V.T. 3 bar 60°C	385	3070	12	18,7	240	546	20	8.5
FR633121001	A65 1EAX 12V bypass T15 VNR 4.5 bar	385	2850	12	19,7	240	530	20	8.5
FR633121002	A65 1ESX 12V bypass T15 VNR 4.5 bar	385	3070	12	18,7	240	530	20	8.5
FR633123113	A65 1EAX 24V bypass T15 V.T. 3 bar 60°C	385	3070	24	10	240	546	20	8.5
FR633123114	A65 1ESX 24V bypass T15 V.T. 3 bar 60°C	385	3180	24	9,4	240	546	20	8.5
FR633121013	A65 1EAX 24V bypass T15 VNR 4.5 bar	385	3070	24	10	240	530	20	8.5
FR633121014	A65 1ESX 24V bypass T15 VNR 4.5 bar	385	3180	24	9,4	240	530	20	8.5
FR633120001	A65 1EAX 12V	385	2850	12	19,7	240	556.5	20	8.5
FR633120002	A65 1ESX 12V	385	3070	12	18,7	240	556.5	20	8.5
FR633120013	A65 1EAX 24V	385	3070	24	10	240	556.5	20	8.5
FR633120014	A65 1ESX 24V	385	3180	24	9,4	240	556.5	20	8.5

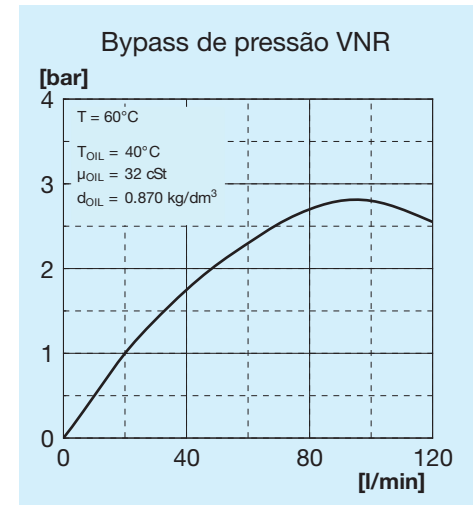
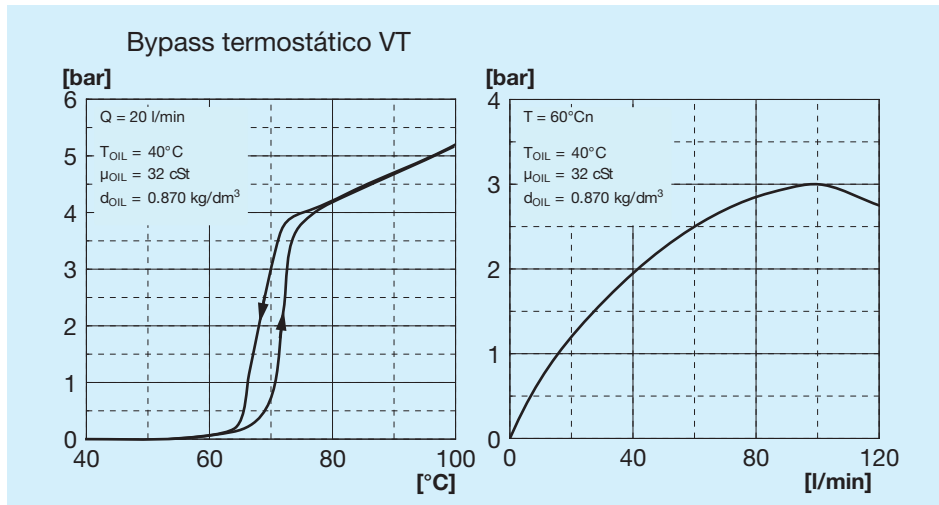
Potência térmica



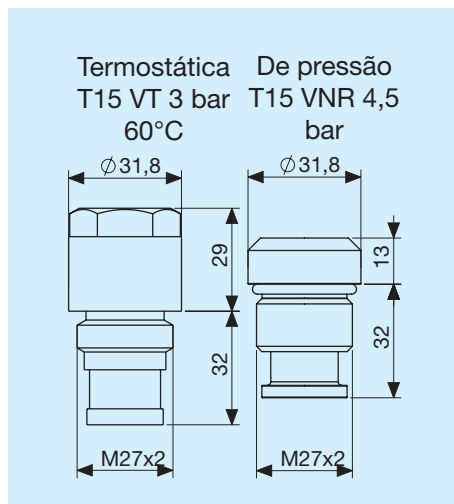
Perda de carga passagem no radiador



Perda de carga passagem bypass

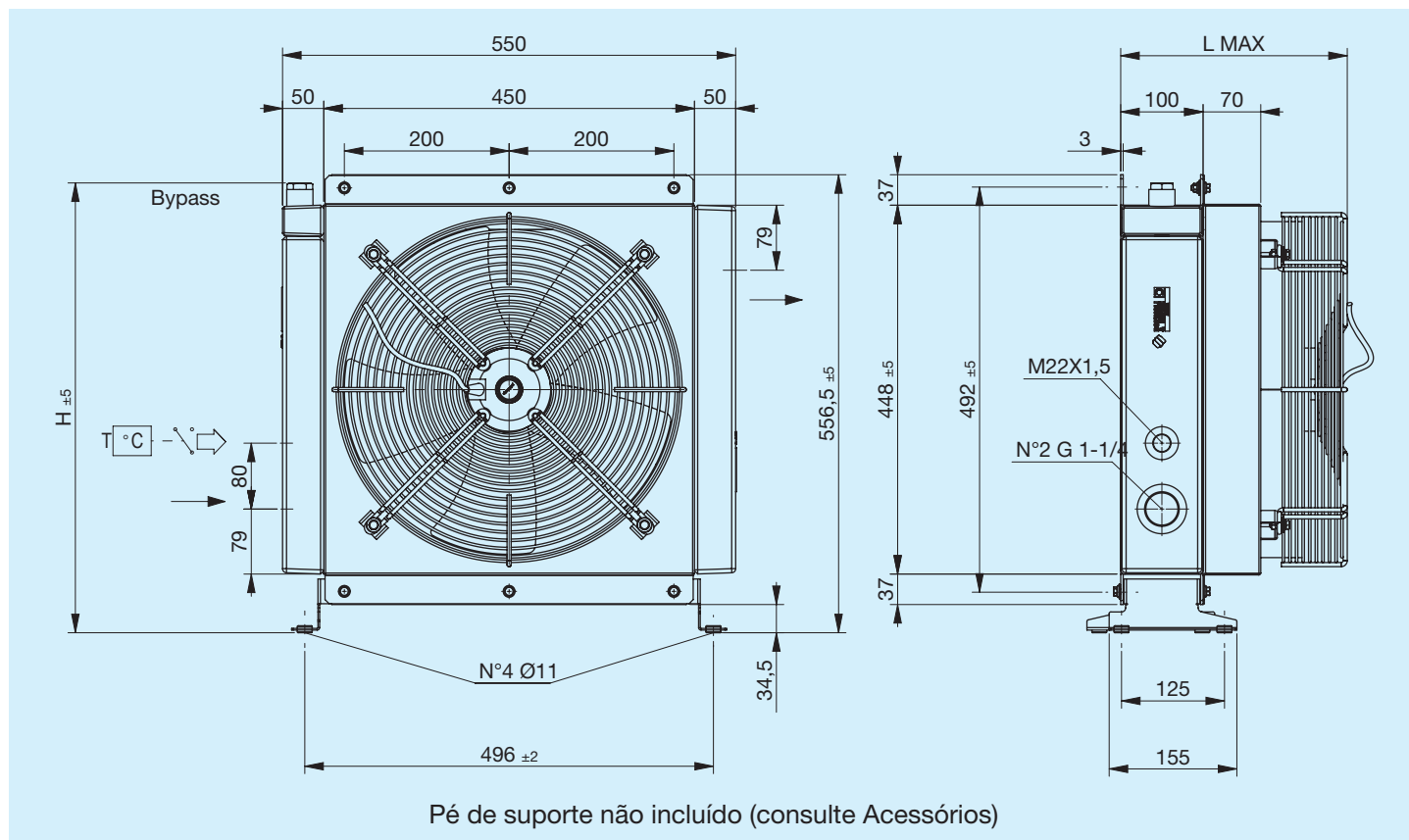


Válvula bypass



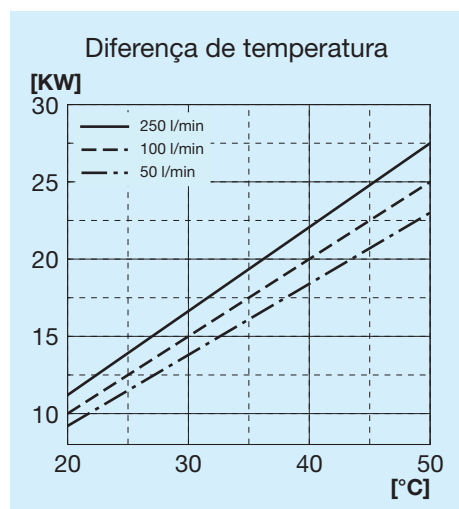
Legenda

A65	Tipo de permutador
1E	1 Ventilador elétrico
A	Aspirante
S	Soprador
AP	Aspirante potencializado
SP	Soprador potencializado
AX	Aspirante superpotencializado
SX	Soprador supertencializado
12V	Tensão do ventilador elétrico
24V	Tensão do ventilador elétrico
T15 VT	Válvula bypass termostática 3 bar 60°C

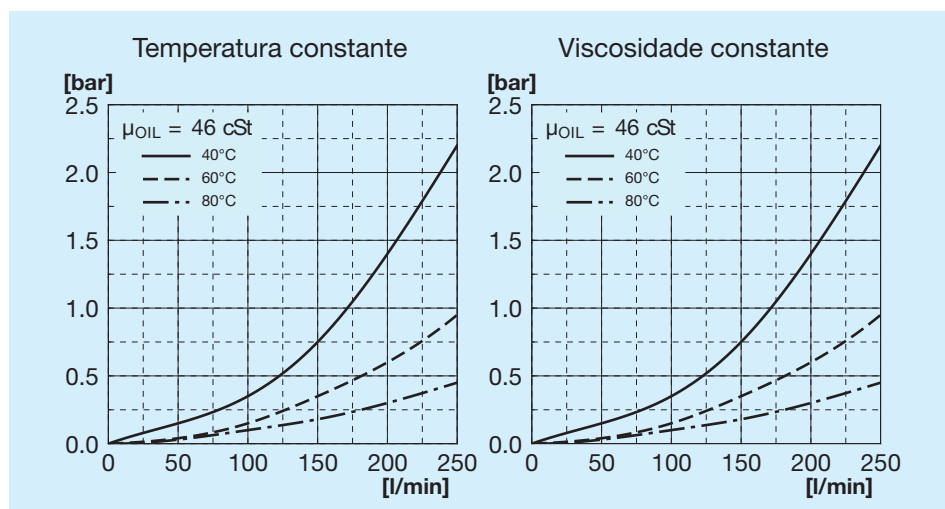


Código	Descrição	Ø Ventilador mm	Potência W	Frequência Hz	Velocidade de rotação min ⁻¹	Proteção IP	L Máx mm	H mm	Massa Kg	Capacidade l
FR633123131	A65 1EA 230V bypass T15 V.T. 3 bar 60°C	400	240	50 60	1430 1700	44	275	546	21.5	8.5
FR633123132	A65 1ES 230V bypass T15 V.T. 3 bar 60°C	400	240	50 60	1430 1700	44	275	546	21.5	8.5
FR633121031	A65 1EA 230V bypass T15 VNR 4.5 bar	400	240	50 60	1430 1700	44	275	530	21.5	8.5
FR633121032	A65 1ES 230V bypass T15 VNR 4.5 bar	400	240	50 60	1430 1700	44	275	530	21.5	8.5
FR633123121	A65 1EA 400V bypass T15 V.T. 3 bar 60°C	400	185	50 60	1450 1690	44	275	546	21.5	8.5
FR633123122	A65 1ES 400V bypass T15 V.T. 3 bar 60°C	400	185	50 60	1450 1690	44	275	546	21.5	8.5
FR633121021	A65 1EA 400V bypass T15 VNR 4.5 bar	400	185	50 60	1450 1690	44	275	530	21.5	8.5
FR633121022	A65 1ES 400V bypass T15 VNR 4.5 bar	400	185	50 60	1450 1690	44	275	530	21.5	8.5
FR633120031	A65 1EA 230V	400	240	50 60	1430 1700	44	275	556	21.5	8.5
FR633120032	A65 1ES 230V	400	240	50 60	1430 1700	44	275	556	21.5	8.5
FR633120021	A65 1EA 400V	400	185	50 60	1450 1690	44	275	556	21.5	8.5
FR633120022	A65 1ES 400V	400	185	50 60	1450 1690	44	275	556	21.5	8.5

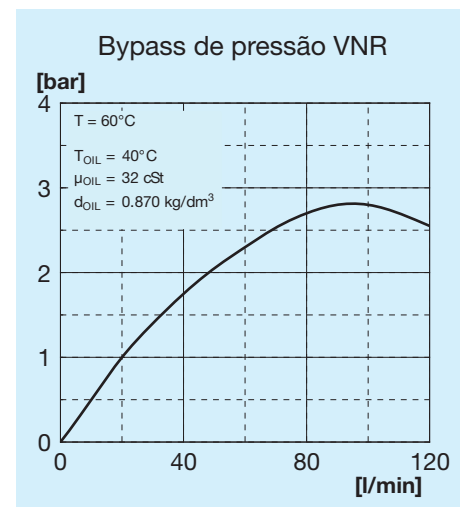
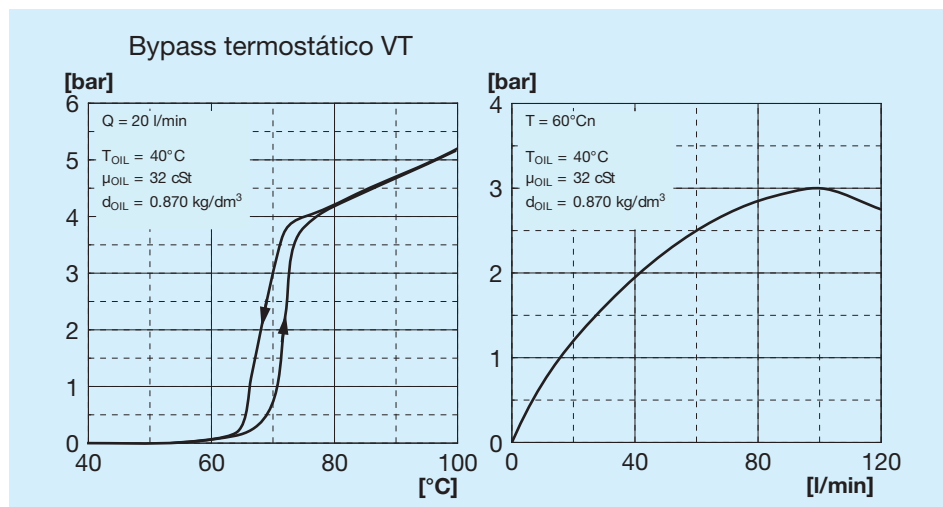
Potência térmica



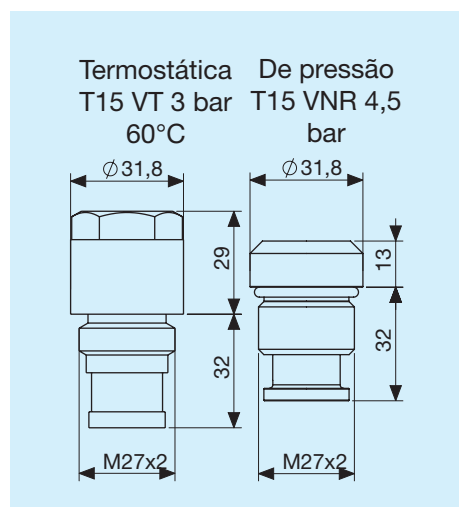
Perda de carga passagem no radiador



Perda de carga passagem bypass

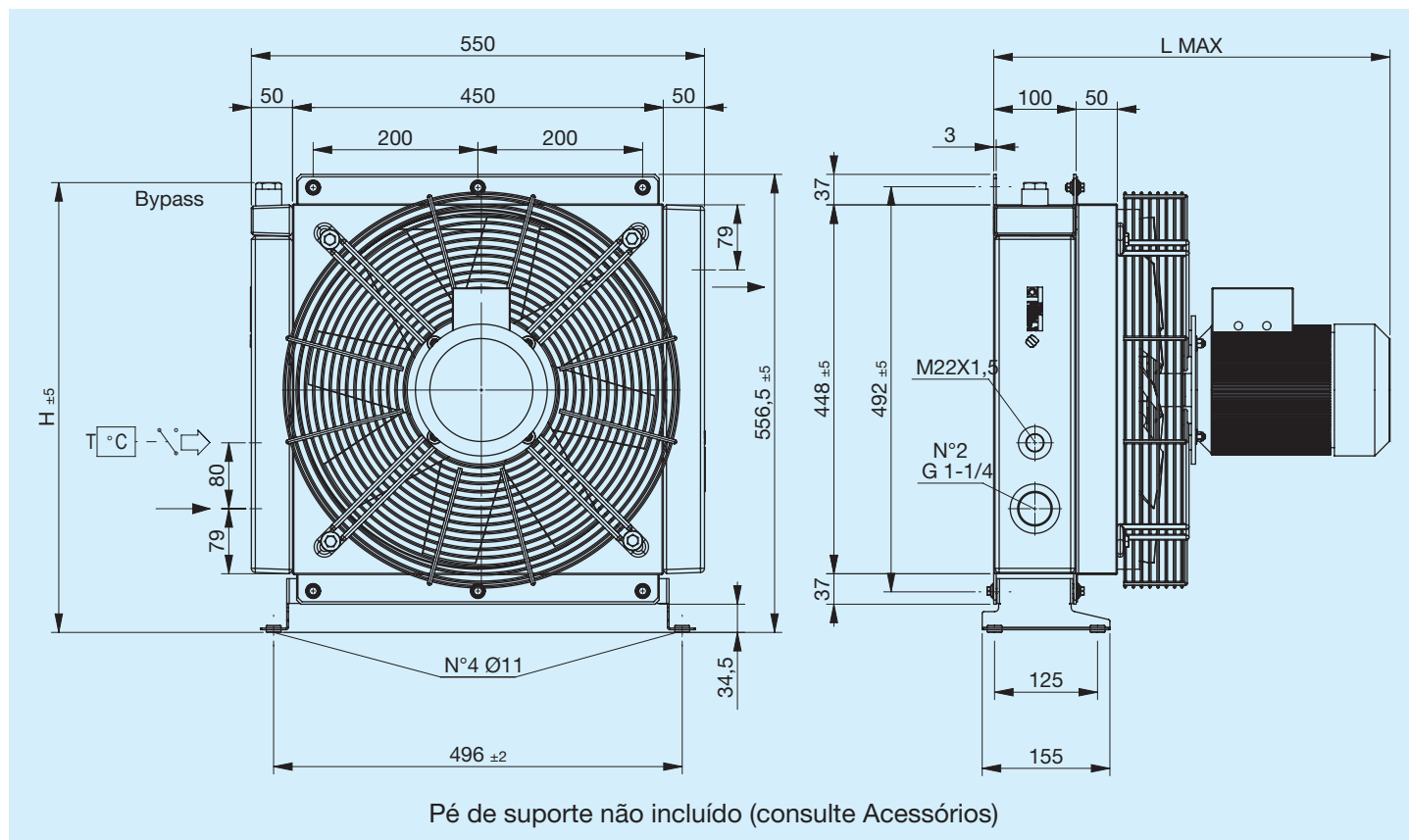


Válvula bypass



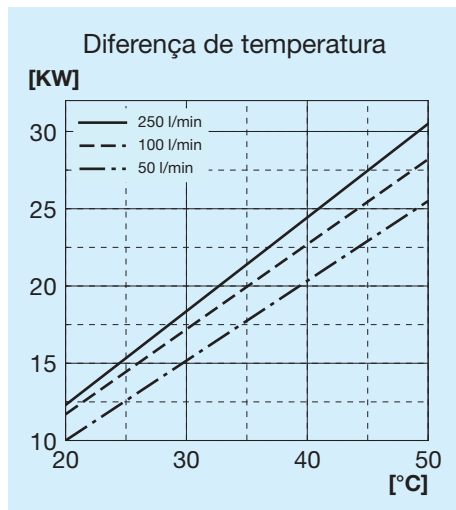
Legenda

A65	Tipo de permutador
1E	1 Ventilador elétrico
A	Aspirante
S	Soprador
230V	Tensão do ventilador elétrico
400V	Tensão do ventilador elétrico
T15 VT	Válvula bypass termostática 3 bar 60°C
T15 VNR	Válvula bypass de pressão 4,5 bar

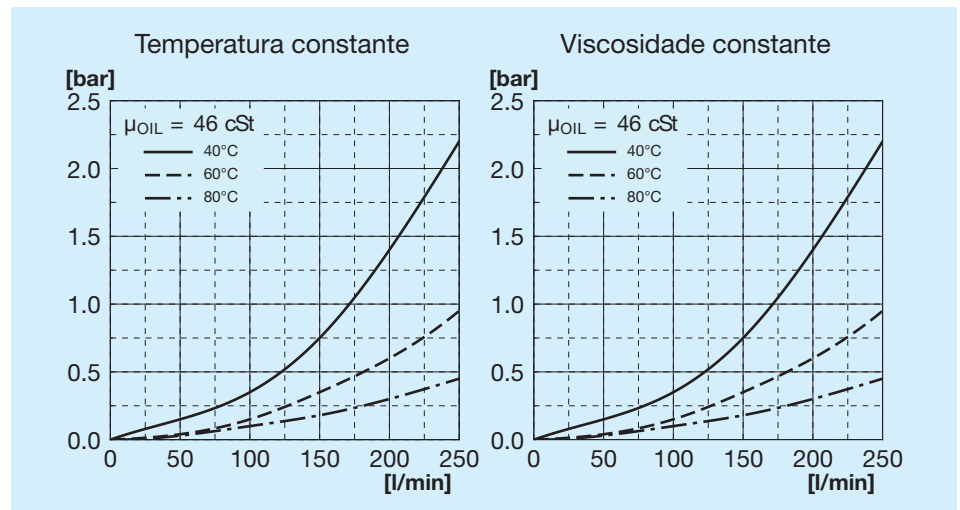


Código	Descrição	Ø Ventilador mm	Potência W	Frequência Hz	Velocidade de min ⁻¹	Proteção IP	L Máx mm	H mm	Massa Kg	Capacidade l
FR633123141	A65 1EA 230V-B14 bypass T15 V.T. 3 bar 60°C	420	750	50	1390	65	481	546	30	8.5
FR633123142	A65 1ES 230V-B14 bypass T15 V.T. 3 bar 60°C	420	750	50	1390	65	481	546	30	8,5
FR633121041	A65 1EA 230V-B14 bypass T15 VNR 4,5 bar	420	750	50	1390	65	481	530	30	8,5
FR633121042	A65 1ES 230V-B14 bypass T15 VNR 4,5 bar	420	750	50	1390	65	481	530	30	8.5
FR633123151	A65 1EA 400V-B14 bypass T15 V.T. 3 bar 60°C	420	750	50	1390	65	481	546	30	8.5
FR633123152	A65 1ES 400V-B14 bypass T15 V.T. 3 bar 60°C	420	750	50	1390	65	481	546	30	8.5
FR633121051	A65 1EA 400V-B14 bypass T15 VNR 4,5 bar	420	750	50	1390	65	481	530	30	8.5
FR633121052	A65 1ES 400V-B14 bypass T15 VNR 4,5 bar	420	750	50	1390	65	481	530	30	8.5
FR633120041	A65 1EA 230V-B14	420	750	50	1390	65	481	556	30	8.5
FR633120042	A65 1ES 230V-B14	420	750	50	1390	65	481	556	30	8.5
FR633120051	A65 1EA 400V-B14	420	750	50	1390	65	481	556	30	8.5
FR633120052	A65 1ES 400V-B14	420	750	50	1390	65	481	556	30	8.5

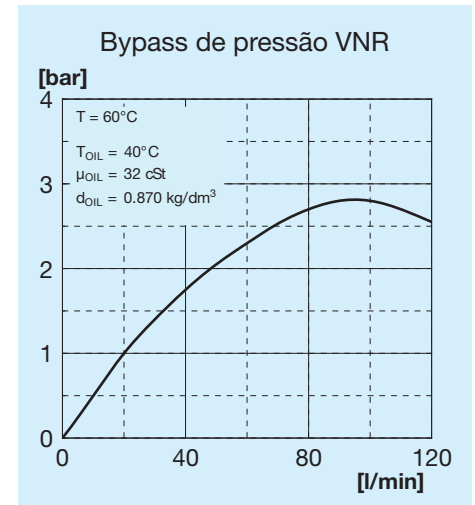
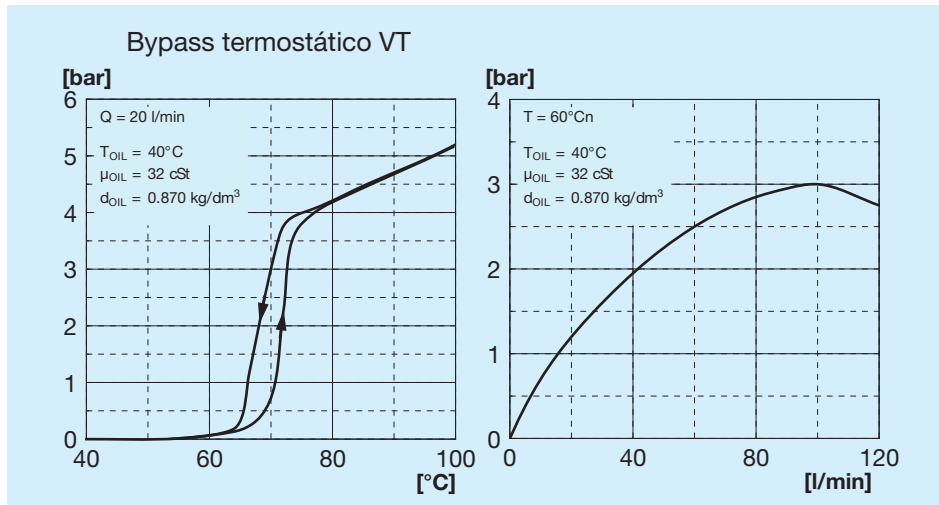
Potência térmica



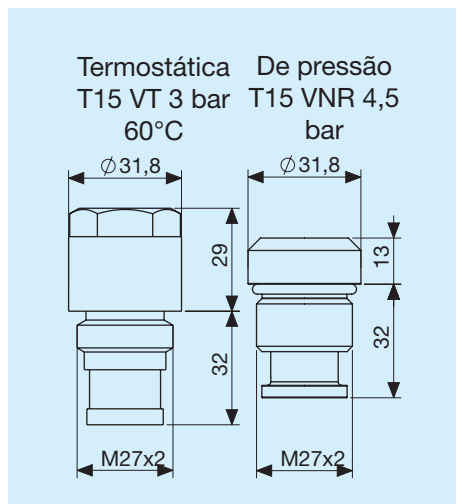
Perda de carga passagem no radiador



Perda de carga passagem bypass

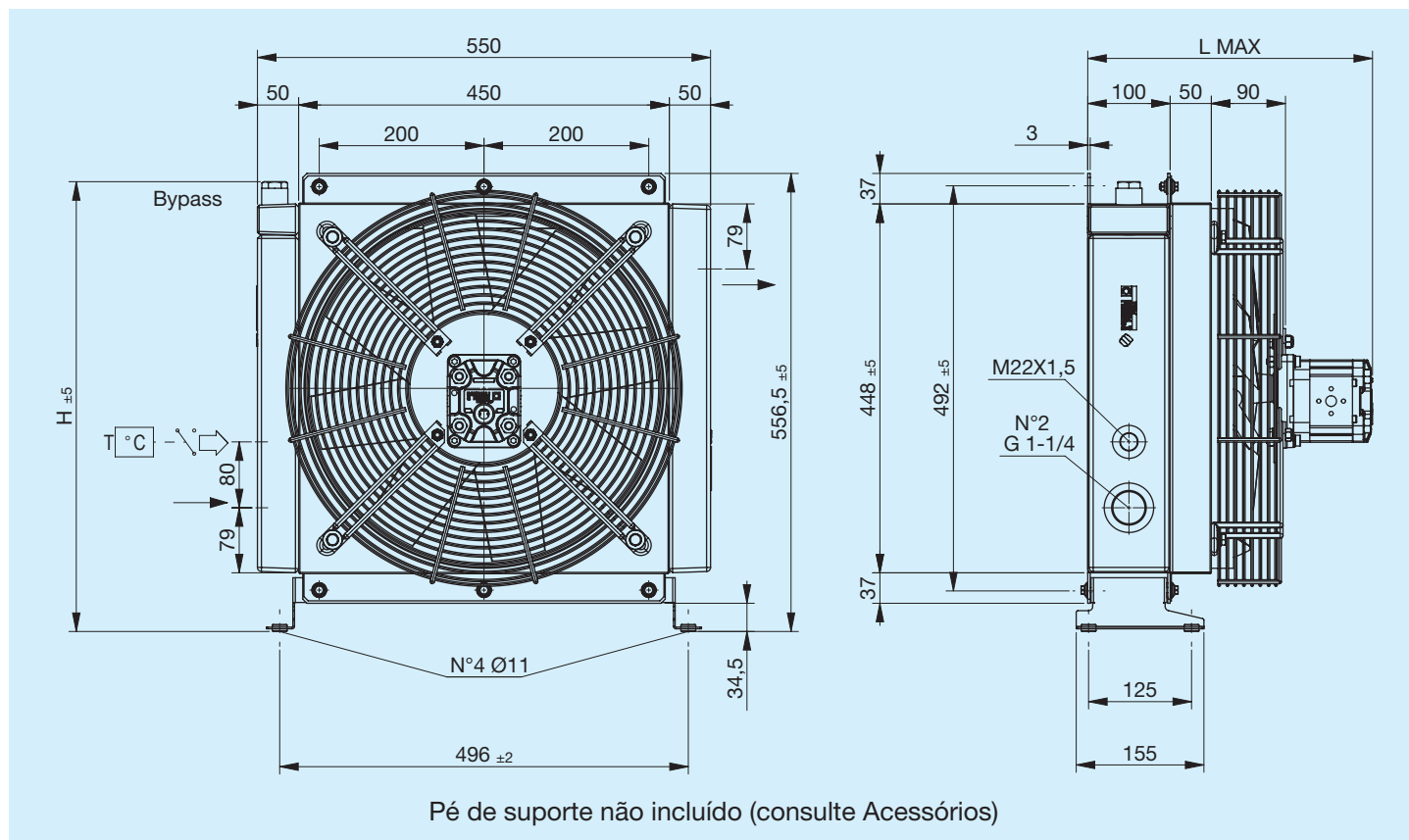


Válvula bypass



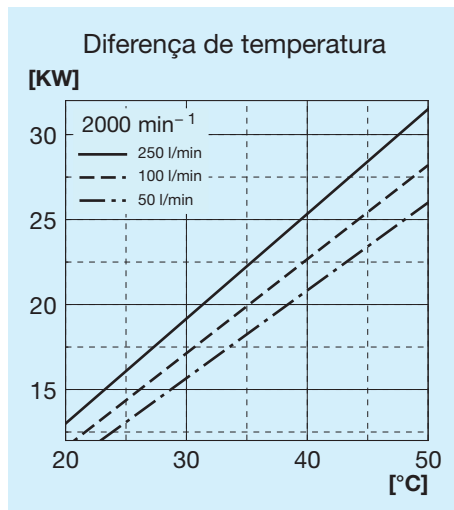
Legenda

A65	Tipo de permutador
1E	1 Ventilador elétrico
A	Aspirante
S	Soprador
230V B14	Tensão do ventilador elétrico
400V B14	Tensão do ventilador elétrico
T15 VT	Válvula bypass termostática 3 bar 60°C
T15 VNR	Válvula bypass de pressão 4,5 bar

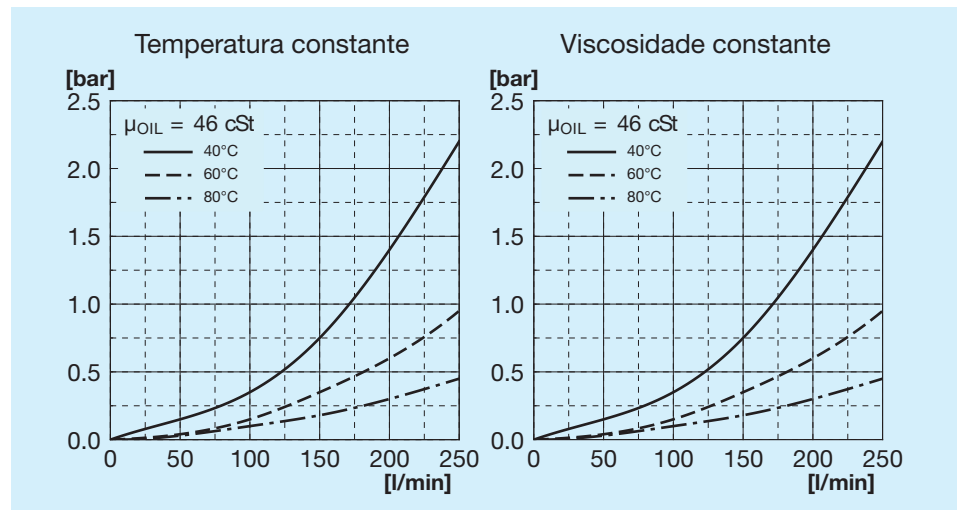


Código	Descrição	Ø Ventilador mm	Cilindro- da do motor cm3	L Máx mm	H mm	Massa Kg	Capaci- dade l
FR634123104	A65 IA PRED. GR2 bypass T15 V.T. 3 bar 60°C	420	—	285	546	23	8.5
FR634123106	A65 IS PRED. GR2 bypass T15 V.T. 3 bar 60°C	420	—	285	546	23	8.5
FR634121004	A65 IA PRED. GR2 bypass T15 VNR 4.5 bar	420	—	285	530	23	8.5
FR634121006	A65 IS PRED. GR2 bypass T15 VNR 4.5 bar	420	—	285	530	23	8.5
FR634123113	A65 IA MOT.HIDR. GR2 bypass T15 V.T. 3 bar 60°C	420	6	345	546	24	8.5
FR634123114	A65 IS MOT.HIDR. GR2 bypass T15 V.T. 3 bar 60°C	420	6	345	546	24	8.5
FR634121013	A65 IA MOT.HIDR. GR2 bypass T15 VNR 4.5 bar	420	6	345	530	24	8.5
FR634121014	A65 IS MOT.HIDR. GR2 bypass T15 VNR 4.5 bar	420	6	345	530	24	8.5
FR634120004	A65 IA PRED. GR2	420	—	285	556	23	8.5
FR634120006	A65 IS PRED. GR2	420	—	285	556	23	8.5
FR634120013	A65 IA MOT.HIDR. GR2	420	6	345	556	24	8.5
FR634120014	A65 IS MOT.HIDR. GR2	420	6	345	556	24	8.5

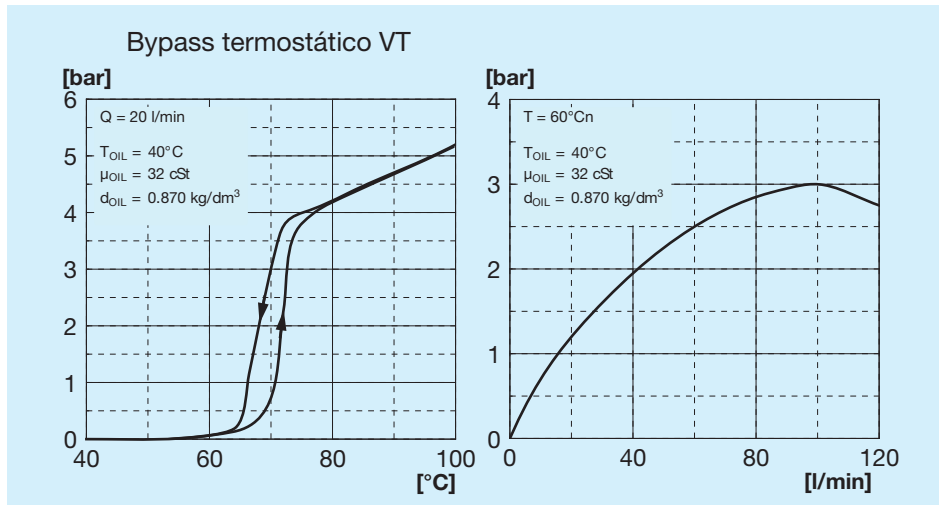
Potência térmica



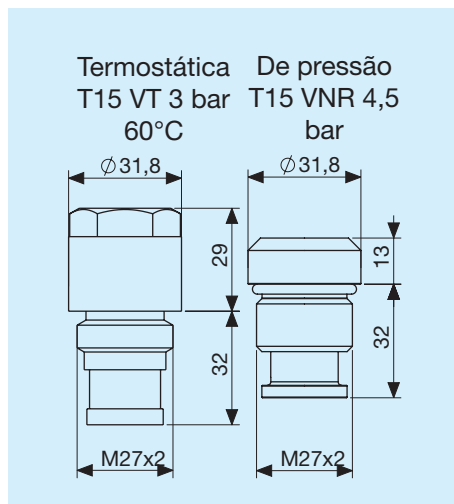
Perda de carga passagem no radiador



Perda de carga passagem bypass



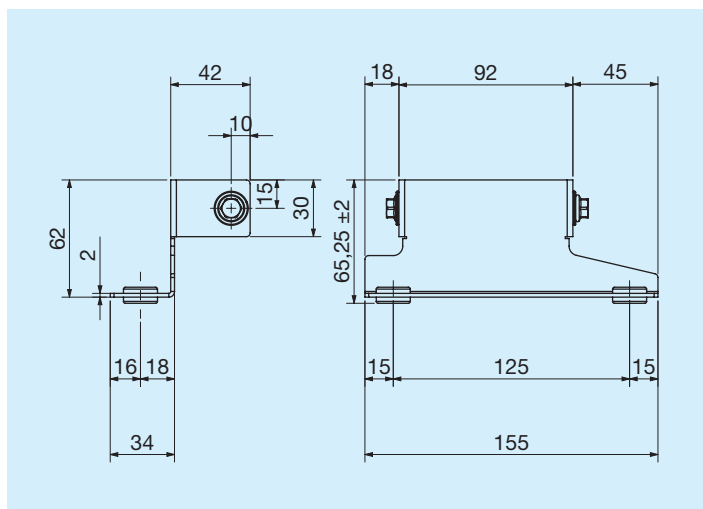
Válvula bypass



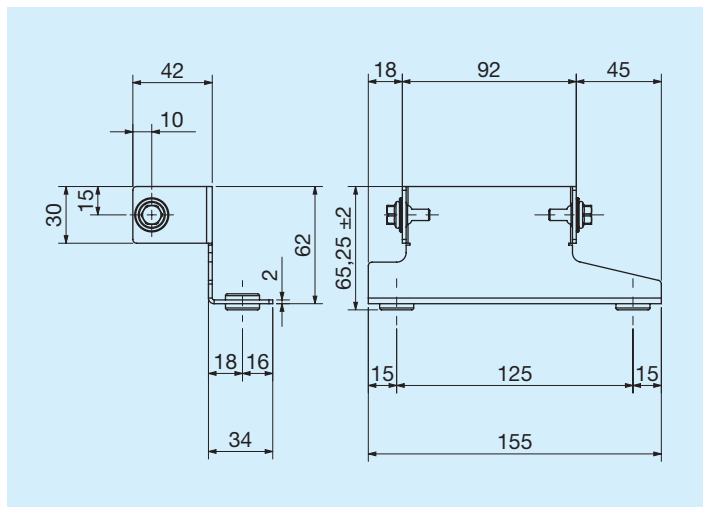
Legenda

A65	Tipo de permutador
IA	Hidráulico Aspirante
IS	Hidráulico Soprador
PRED.	Com suporte do motor
MOT. HIDR.	Com motor com suporte integrado
GR1	Grupo 1
GR2	Grupo 2
T15 VT	Válvula bypass termostática 3 bar 60°C
T15 VNR	Válvula bypass de pressão 4,5 bar

Pé de suporte esquerdo

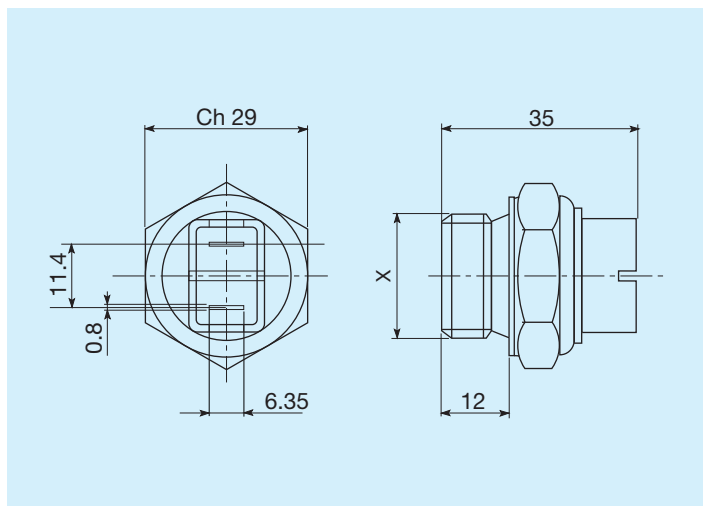


	Código
Pé de suporte esquerdo	FR290000009R



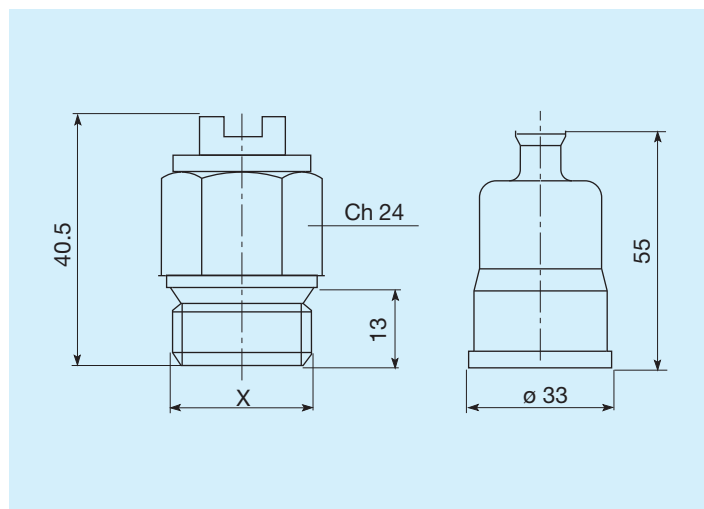
	Código
Pé de suporte direito	FR290000010R

Termostato



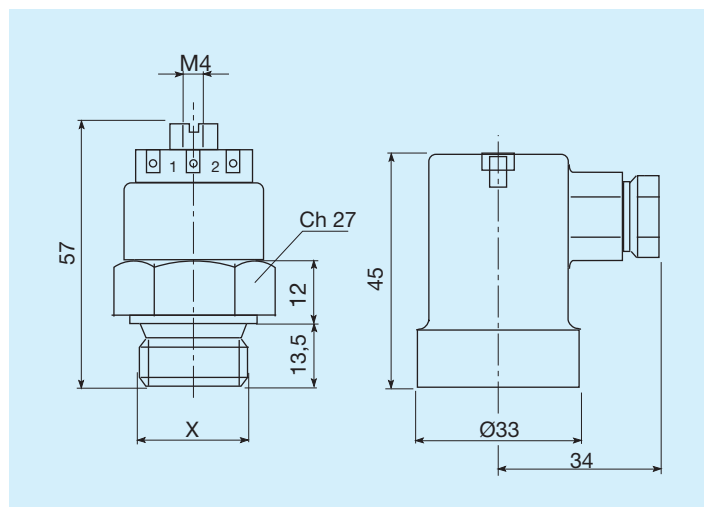
Temperaturas de intervenção C°	Roscagem	Código
45 - 35	M22x1,5	FR361104535R
60 - 50	M22x1,5	FR361106050R
80 - 70	M22x1,5	FR361108070R
82 - 68	M22x1,5	FR361108268R
85 - 76	M22x1,5	FR361108576R

Termostatos protegidos IP54



Temperaturas de intervenção C°	Roscagem	Código
45 - 35	M22x1,5	FR361124535R
50 - 40	M22x1,5	FR361125040R
60 - 50	M22x1,5	FR361126050R
70 - 60	M22x1,5	FR361127060R
80 - 70	M22x1,5	FR361128070R

Termostatos protegidos IP65



Temperaturas de intervenção C°	Roscagem	Código
45 - 35	M22x1,5	FR361154535R
47 - 36	M22x1,5	FR361155040R
60 - 50	M22x1,5	FR361176050R
80 - 70	M22x1,5	FR361158070R