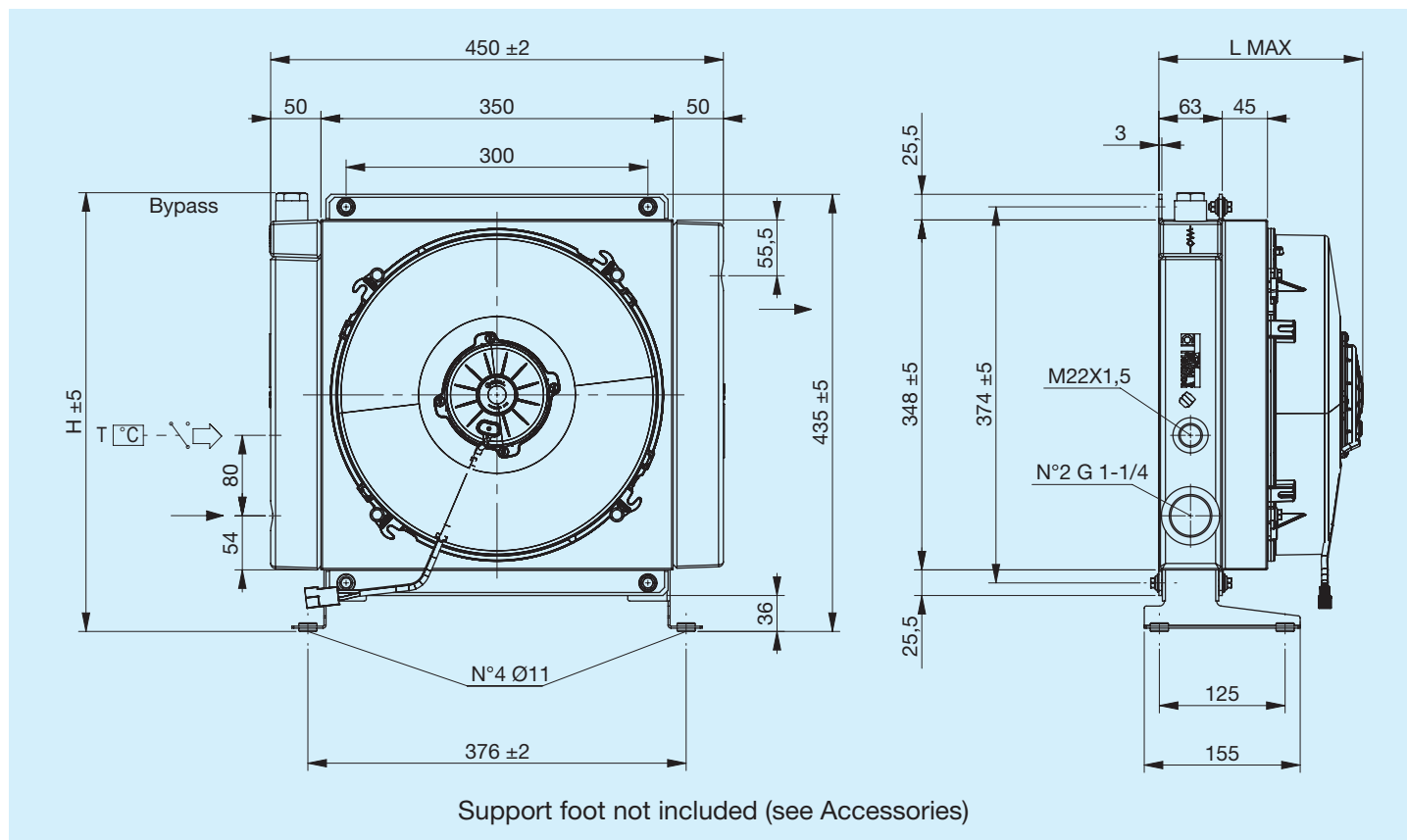


A46

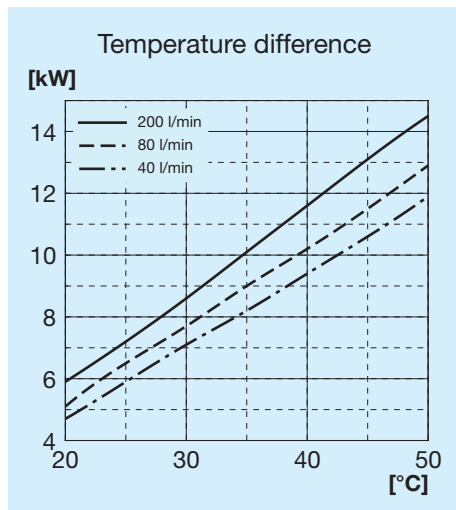


Before using the heat exchanger, carefully read the document entitled GENERAL INSTRUCTIONS FOR HEAT EXCHANGER USE.

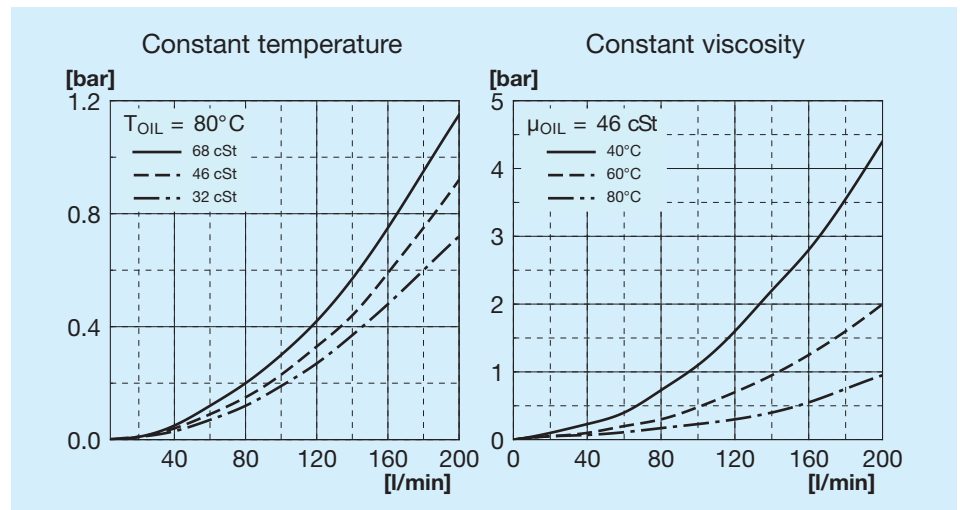


Code	Description	ΦFan mm	Air flow rate m³/h	Voltage V	Current A	L Max mm	H mm	Weight Kg	Capacity l
FR633203105	A46 1EAX 12V bypass T15 V.T. 3 bar 60°C	305	2150	12	16.1	210	436	13.5	4
FR633203106	A46 1ESX 12V bypass T15 V.T. 3 bar 60°C	305	2080	12	15.9	210	436	13.5	4
FR633201005	A46 1EAX 12V bypass T15 VNR 4.5 bar	305	2150	12	16.1	210	420	13.5	4
FR633201006	A46 1ESX 12V bypass T15 VNR 4.5 bar	305	2080	12	15.9	210	420	13.5	4
FR633203115	A46 1EAX 24V bypass T15 V.T. 3 bar 60°C	305	2340	24	8.4	210	436	13.5	4
FR633203116	A46 1ESX 24V bypass T15 V.T. 3 bar 60°C	305	2210	24	8.1	210	436	13.5	4
FR633201015	A46 1EAX 24V bypass T15 VNR 4.5 bar	305	2340	24	8.4	210	420	13.5	4
FR633201016	A46 1ESX 24V bypass T15 VNR 4.5 bar	305	2210	24	8.1	210	420	13.5	4
FR633200003	A46 1EAP 12V	305	1610	12	10.6	180	435	12.5	4
FR633200004	A46 1ESP 12V	305	1470	12	9.3	180	435	12.5	4
FR633200005	A46 1EAX 12V	305	2150	12	16.1	210	435	13.5	4
FR633200006	A46 1ESX 12V	305	2080	12	15.9	210	435	13.5	4
FR633200013	A46 1EAP 24V	305	1580	24	4.9	180	435	12.5	4
FR633200014	A46 1ESP 24V	305	2060	24	6	180	435	12.5	4
FR633200015	A46 1EAX 24V	305	2340	24	8.4	210	435	13.5	4
FR633200016	A46 1ESX 24V	305	2210	24	8.1	210	435	13.5	4

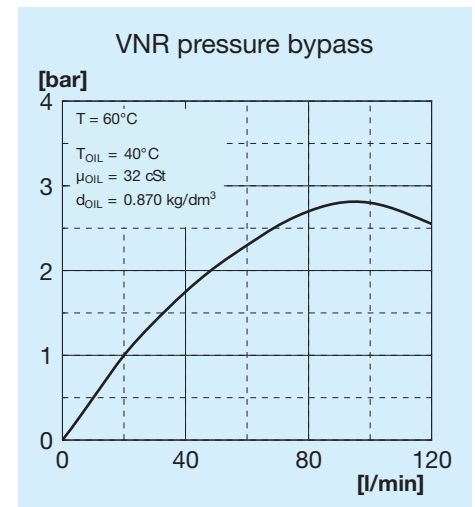
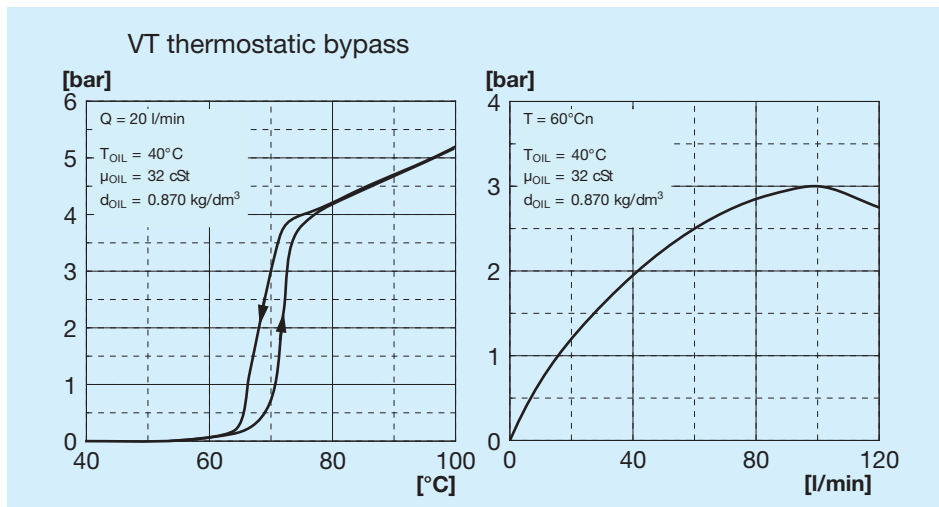
Heat exchange (thermal) capacity



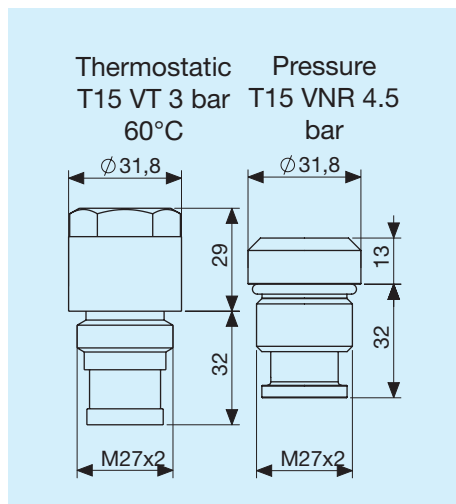
Radiator passage pressure drop



Bypass passage load loss

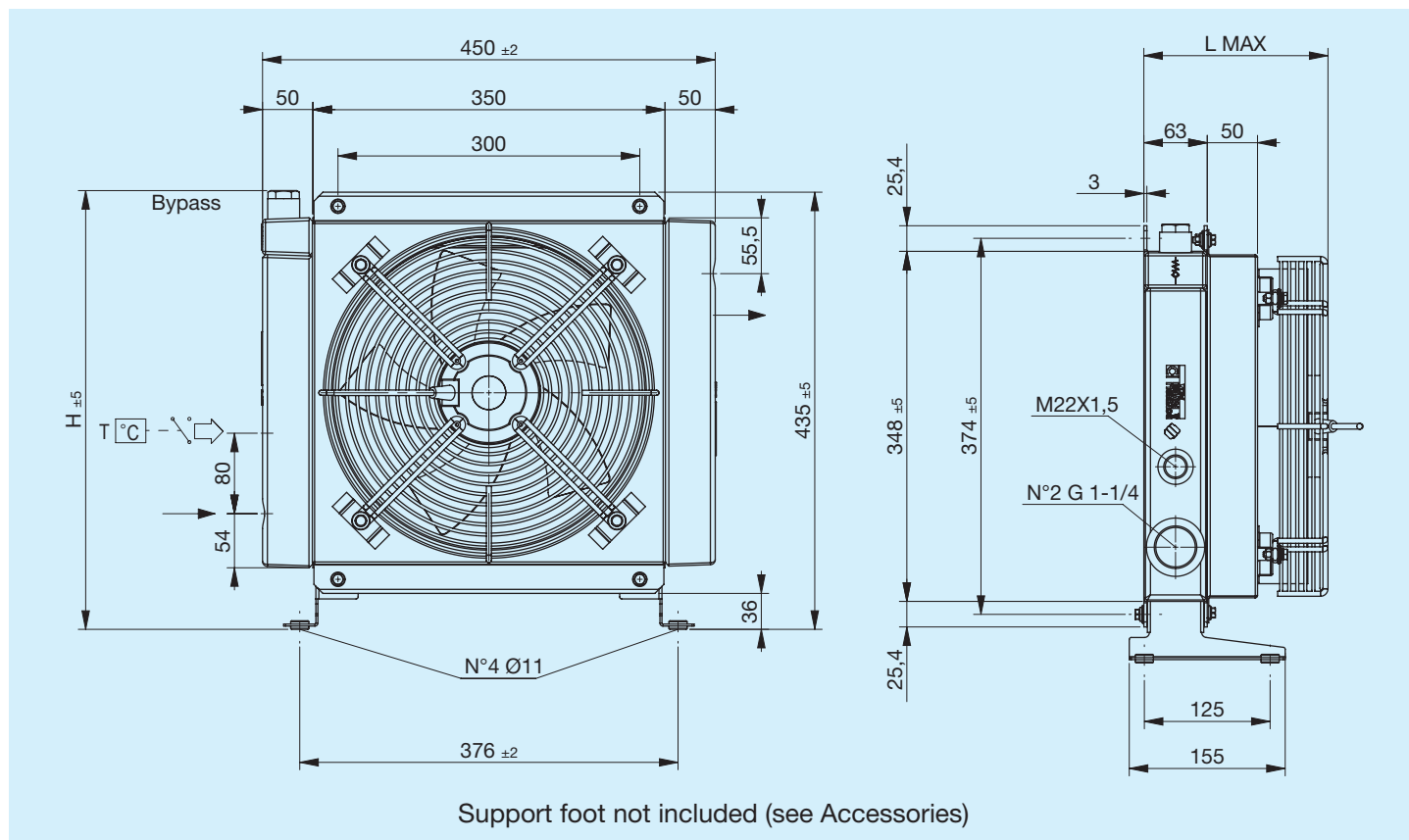


Bypass valves



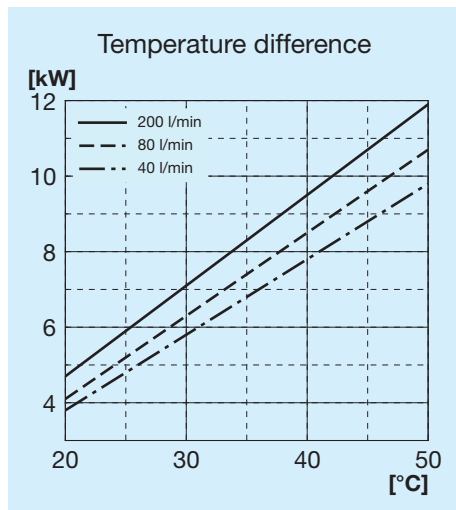
Legend

A46	Exchanger type
1E	1 Fan unit
A	Aspirating
S	Blowing
AP	High power aspirating
SP	High power blower
AX	Extra high power aspirating
SX	Extra high power blower
12V	Fan unit voltage
24V	Fan unit voltage
T15 VT	Thermostatic bypass valve 3 bar 60°C
T15 VNR	Pressure bypass valve at 4.5 bar

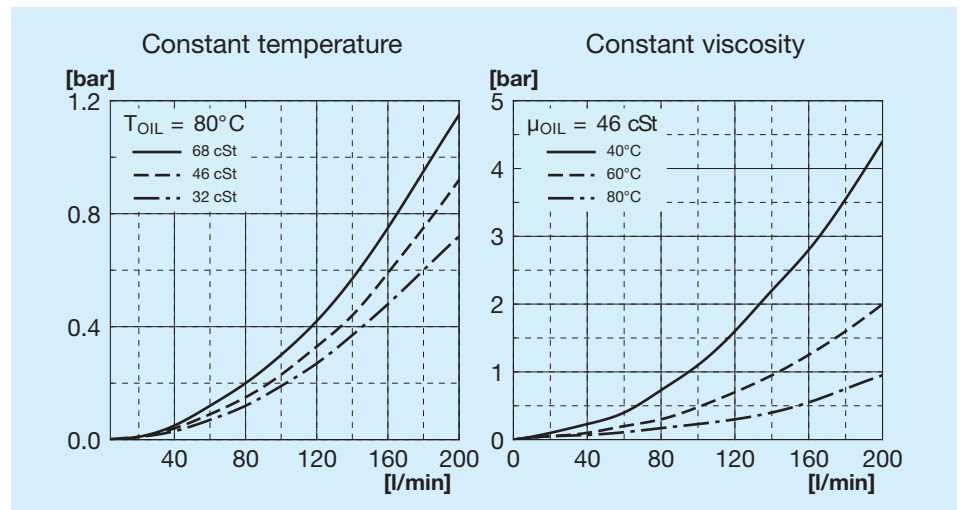


Code	Description	ΦFan mm	Power W	Frequen- cy Hz	Speed min ⁻¹	Pro- tection IP	L Max mm	H mm	Weight Kg	Capacity l
FR633203131	A46 1EA 230V bypass T15 V.T. 3 bar 60°C	300	350	50 60	2700 3000	44	183	436	16	4
FR633203132	A46 1ES 230V bypass T15 V.T. 3 bar 60°C	300	350	50 60	2700 3000	44	183	436	16	4
FR633201031	A46 1EA 230V bypass T15 VNR 4.5 bar	300	350	50 60	2700 3000	44	183	420	16	4
FR633201032	A46 1ES 230V bypass T15 VNR 4.5 bar	300	350	50 60	2700 3000	44	183	420	16	4
FR633203121	A46 1EA 400V bypass T15 V.T. 3 bar 60°C	300	300	50 60	2580 2750	44	183	436	16	4
FR633203122	A46 1ES 400V bypass T15 V.T. 3 bar 60°C	300	300	50 60	2580 2750	44	183	436	16	4
FR633201021	A46 1EA 400V bypass T15 VNR 4.5 bar	300	300	50 60	2580 2750	44	183	420	16	4
FR633201022	A46 1ES 400V bypass T15 VNR 4.5 bar	300	300	50 60	2580 2750	44	183	420	16	4
FR633200031	A46 1EA 230V	300	350	50 60	2700 3000	44	183	435	16	4
FR633200032	A46 1ES 230V	300	350	50 60	2700 3000	44	183	435	16	4
FR633200021	A46 1EA 400V	300	300	50 60	2580 2750	44	183	435	16	4
FR633200022	A46 1ES 400V	300	300	50 60	2580 2750	44	183	435	16	4

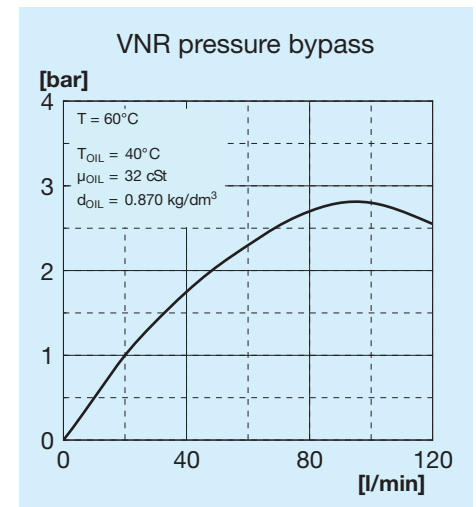
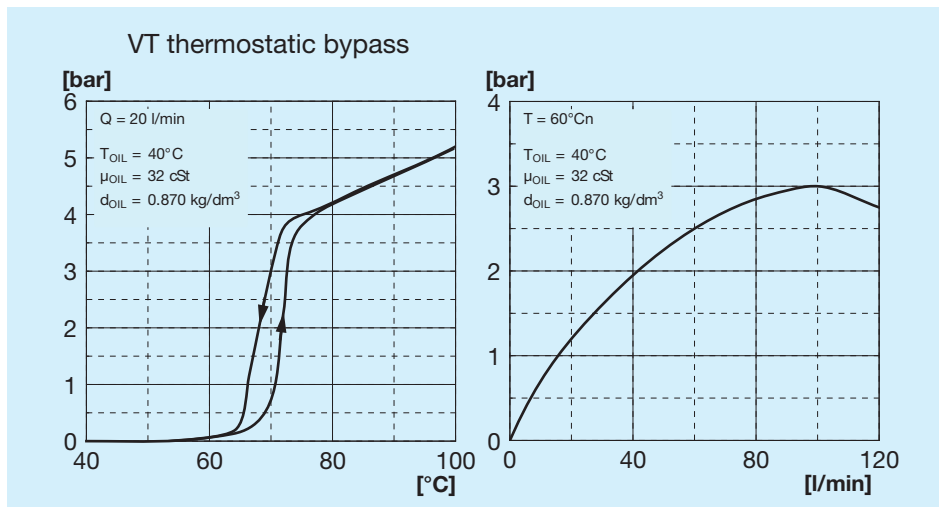
Heat exchange (thermal) capacity



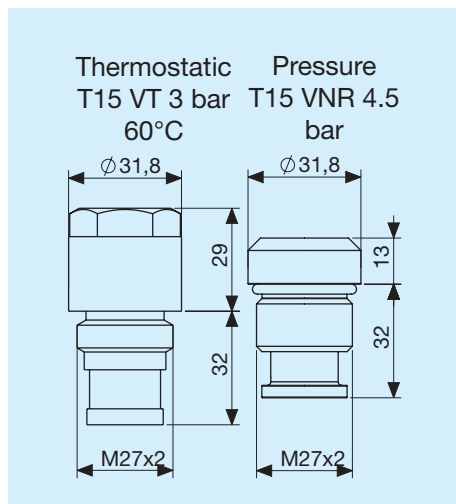
Radiator passage pressure drop



Bypass passage load loss

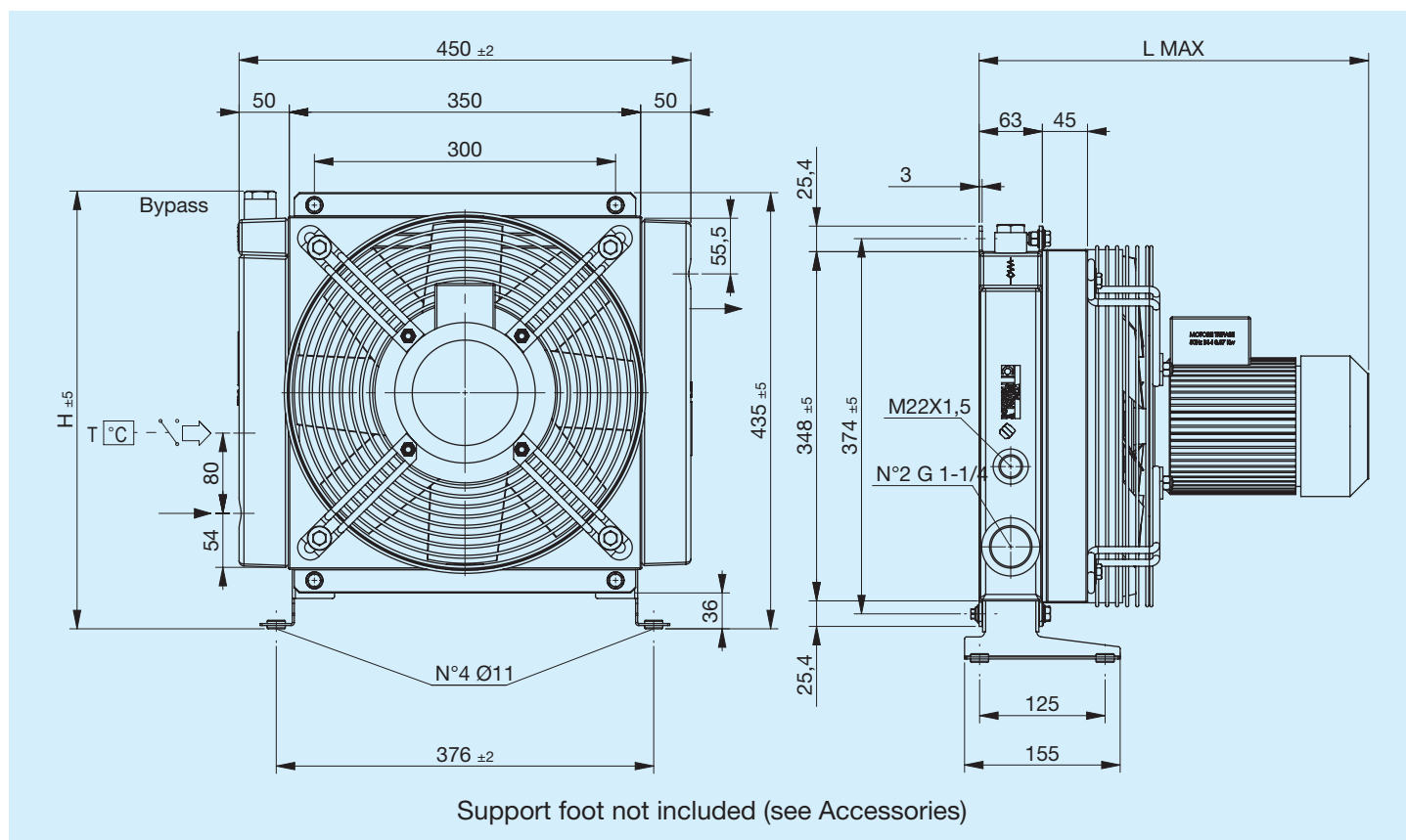


Bypass valves



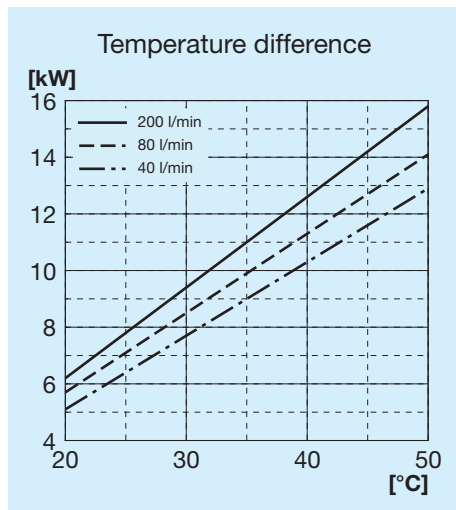
Legend

A46	Exchanger type
1E	1 Fan unit
A	Aspirating
S	Blowing
230V	Fan unit voltage
400V	Fan unit voltage
T15 VT	Thermostatic bypass valve 3 bar 60°C
T15 VNR	Pressure bypass valve at 4.5 bar

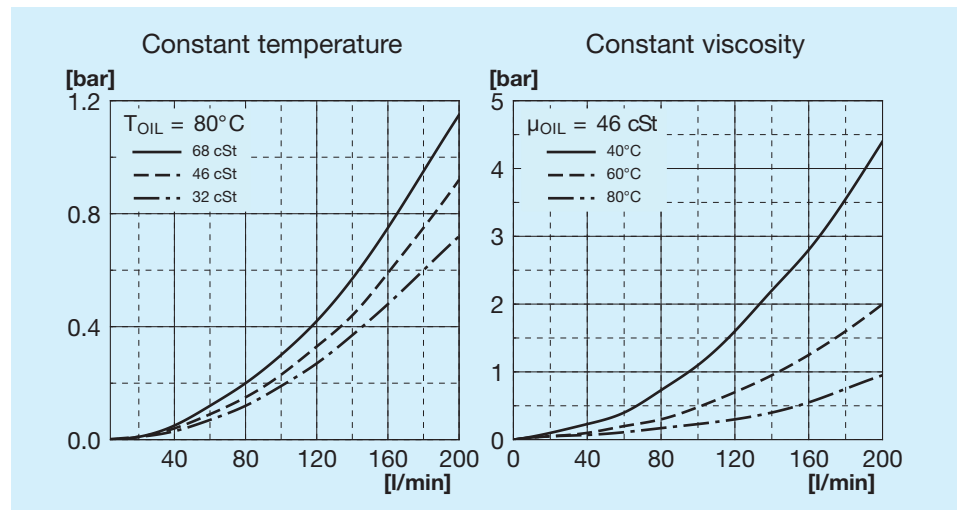


Code	Description	ΦFan mm	Power W	Frequen- cy Hz	Speed min ⁻¹	Pro- tection IP	L Max mm	H mm	Weight Kg	Capacity l
FR633203141	A46 1EA 230V-B14 bypass T15 V.T. 3 bar 60°C	340	370	50	2790	65	388	436	20.5	4
FR633203142	A46 1ES 230V-B14 bypass T15 V.T. 3 bar 60°C	340	370	50	2790	65	388	436	20.5	4
FR633201041	A46 1EA 230V-B14 bypass T15 VNR 4.5 bar	340	370	50	2790	65	388	420	20.5	4
FR633201042	A46 1ES 230V-B14 bypass T15 VNR 4.5 bar	340	370	50	2790	65	388	420	20.5	4
FR633203151	A46 1EA 400V-B14 bypass T15 V.T. 3 bar 60°C	340	370	50	2790	65	388	436	20.5	4
FR633203152	A46 1ES 400V-B14 bypass T15 V.T. 3 bar 60°C	340	370	50	2790	65	388	436	20.5	4
FR633201051	A46 1EA 400V-B14 bypass T15 VNR 4.5 bar	340	370	50	2790	65	388	420	20.5	4
FR633201052	A46 1ES 400V-B14 bypass T15 VNR 4.5 bar	340	370	50	2790	65	388	420	20.5	4
FR633200041	A46 1EA 230V-B14	340	370	50	2790	65	388	435	20.5	4
FR633200042	A46 1ES 230V-B14	340	370	50	2790	65	388	435	20.5	4
FR633200051	A46 1EA 400V-B14	340	370	50	2790	65	388	435	20.5	4
FR633200052	A46 1ES 400V-B14	340	370	50	2790	65	388	435	20.5	4

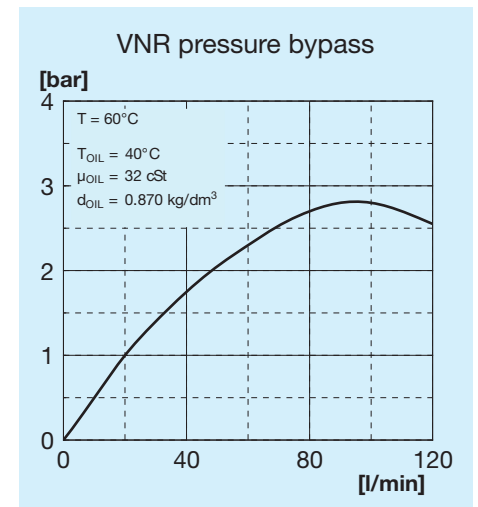
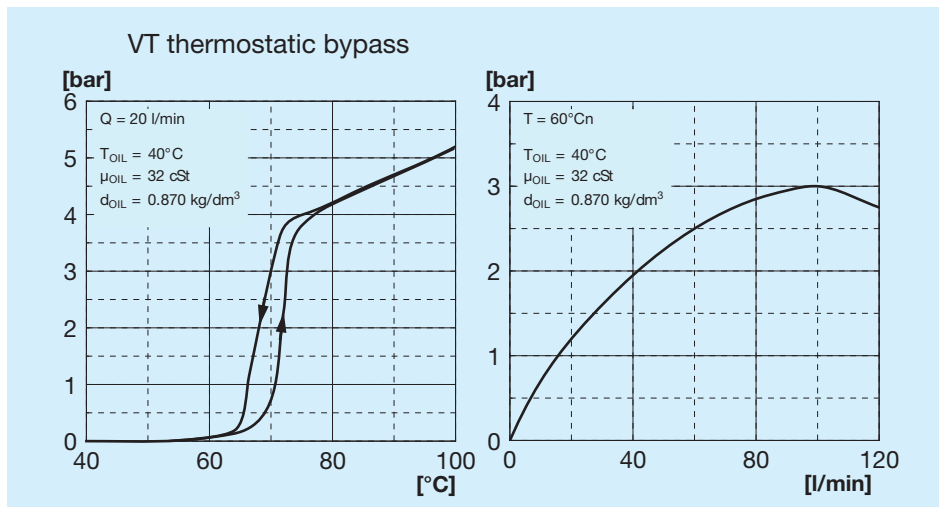
Heat exchange (thermal) capacity



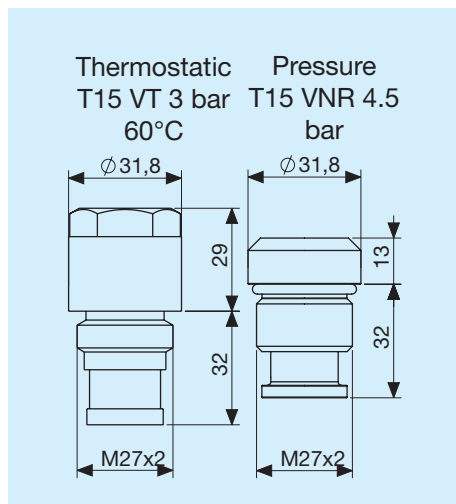
Radiator passage pressure drop



Bypass passage load loss

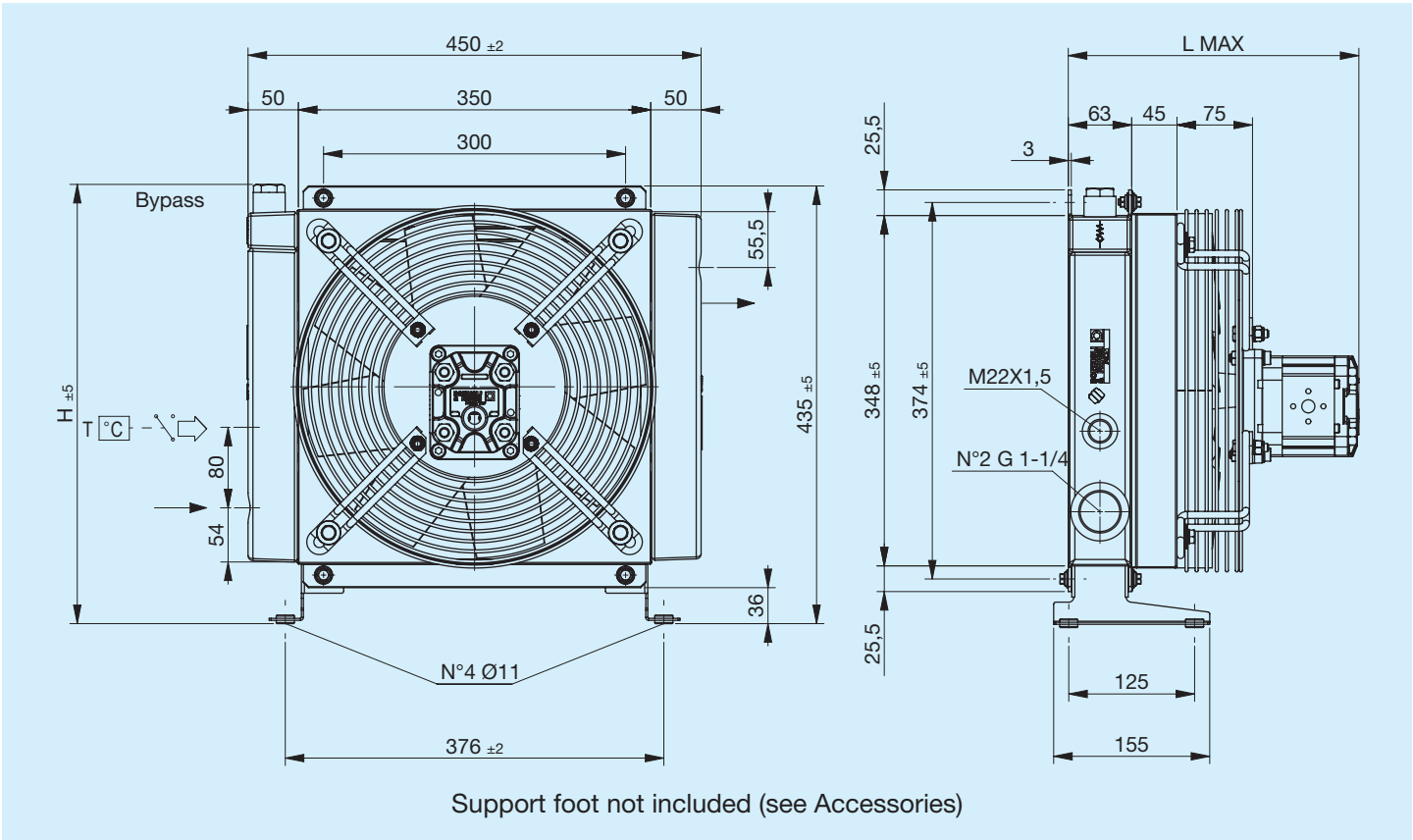


Bypass valves



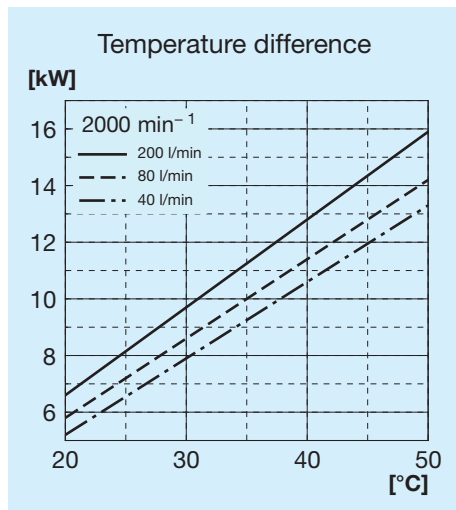
Legend

A46	Exchanger type
1E	1 Fan unit
A	Aspirating
S	Blowing
230V B14	Fan unit voltage
400V B14	Fan unit voltage
T15 VT	Thermostatic bypass valve 3 bar 60°C
T15 VNR	Pressure bypass valve at 4.5 bar

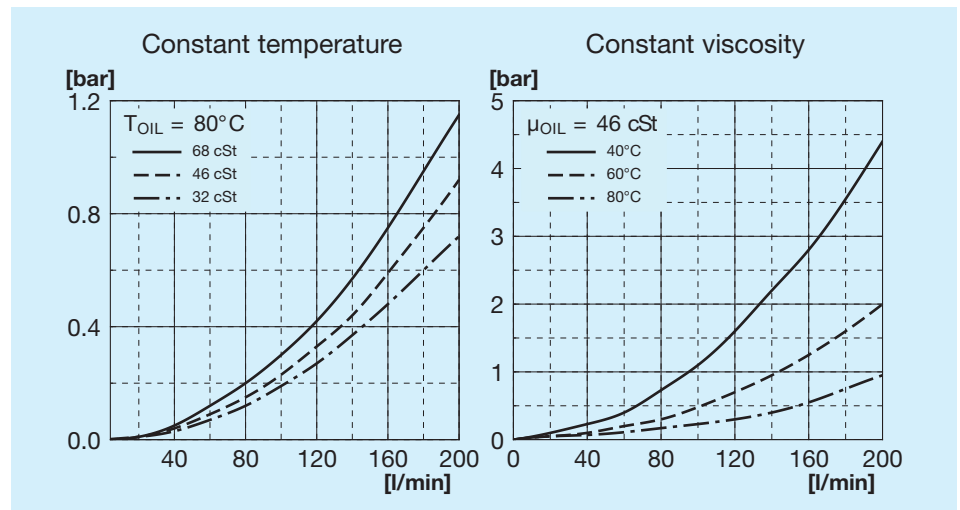


Code	Description	ΦFan	Motor displacement	L Max	H	Weight	Capacity
		mm	cm3	mm	mm	Kg	l
FR634203101	A46 IA SETT.GR2 bypass T15 V.T. 3 bar 60°C	340	—	225	436	14	4
FR634203102	A46 IS SETT.GR2 bypass T15 V.T. 3 bar 60°C	340	—	225	436	14	4
FR634201001	A46 IA SETT.GR2 bypass T15 VNR 4.5 bar	340	—	225	420	14	4
FR634201002	A46 IS SETT.GR2 bypass T15 VNR 4.5 bar	340	—	225	420	14	4
FR634203103	A46 IA HYDR.MOT. GR2 bypass T15 V.T. 3 bar 60°C	340	6	285	436	15	4
FR634203104	A46 IS HYDR.MOT. GR2 bypass T15 V.T. 3 bar 60°C	340	6	285	436	15	4
FR634201003	A46 IA HYDR.MOT. GR2 bypass T15 VNR 4.5 bar	340	6	285	420	15	4
FR634201004	A46 IS HYDR.MOT. GR2 bypass T15 VNR 4.5 bar	340	6	285	420	15	4
FR634200001	A46 IA SETT.GR2	340	—	225	435	14	4
FR634200002	A46 IS SETT.GR2	340	—	225	435	14	4
FR634200003	A46 IA HYDR.MOT. GR2	340	6	285	435	15	4
FR634200004	A46 IS HYDR.MOT. GR2	340	6	285	435	15	4

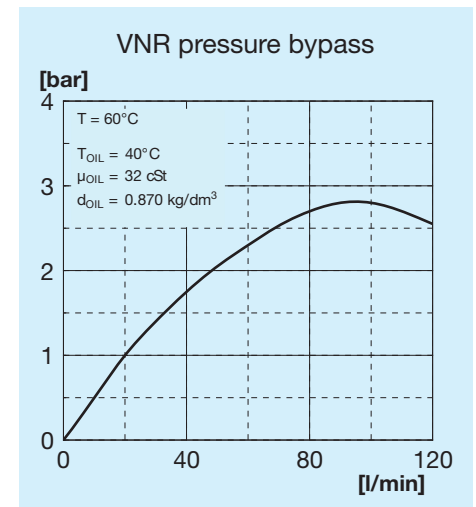
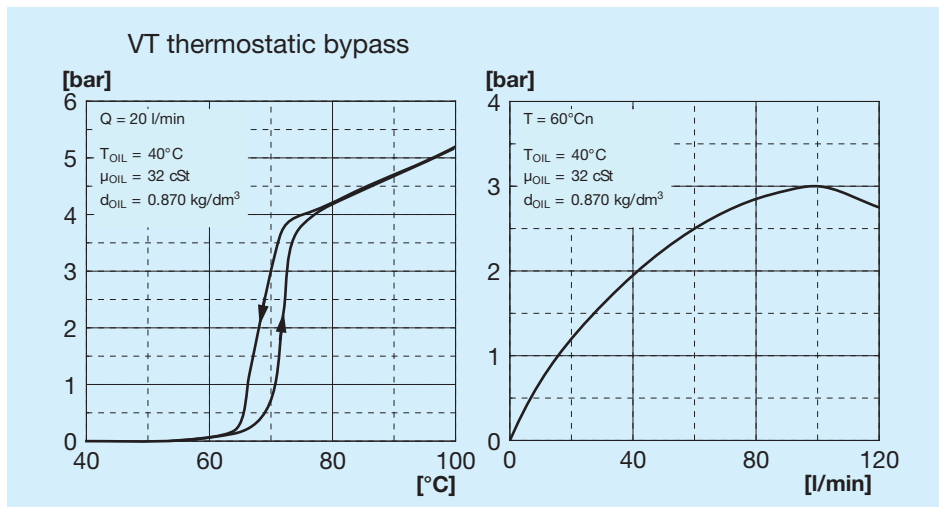
Heat exchange (thermal) capacity



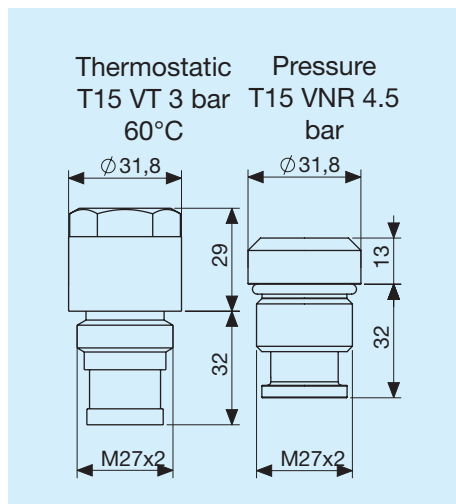
Radiator passage pressure drop



Bypass passage load loss



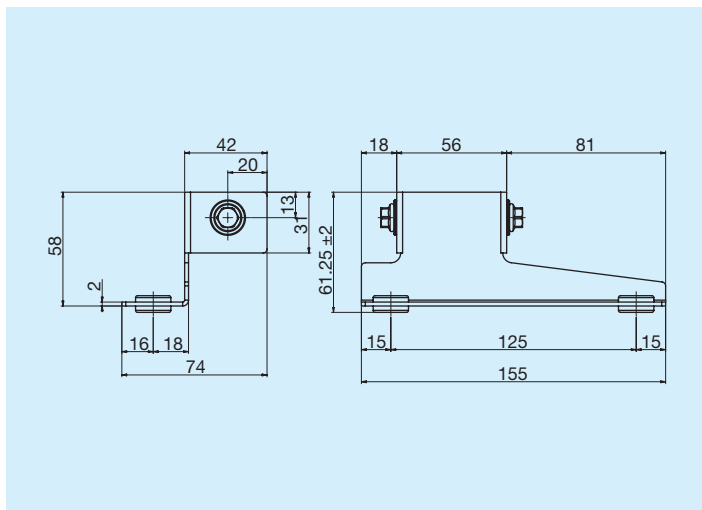
Bypass valves



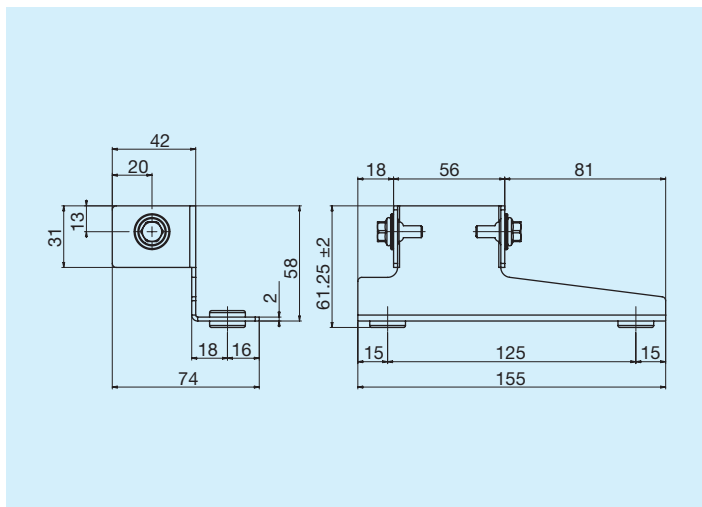
Legend

A46	Exchanger type
IA	Hydraulic aspirating
IS	Hydraulic blowing
SETT.	With motor mounting
HYD. MOT.	With integrated motor mounting
GR1	Group 1
GR2	Group 2
T15 VT	Thermostatic bypass valve 3 bar 60°C
T15 VNR	Pressure bypass valve at 4.5 bar

Left supporting foot

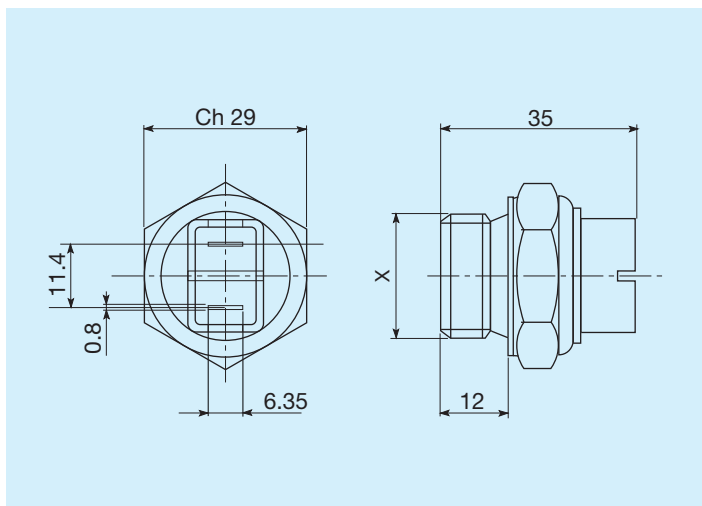


	Code
Left supporting foot	FR290000011R



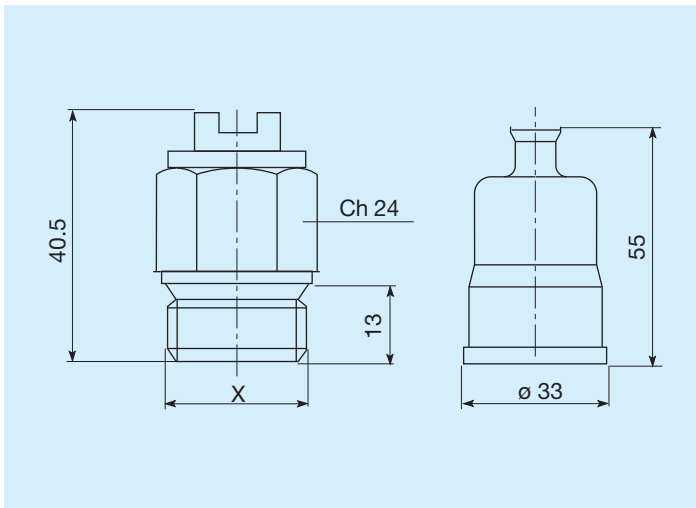
	Code
Right supporting foot	FR290000012R

Thermostats



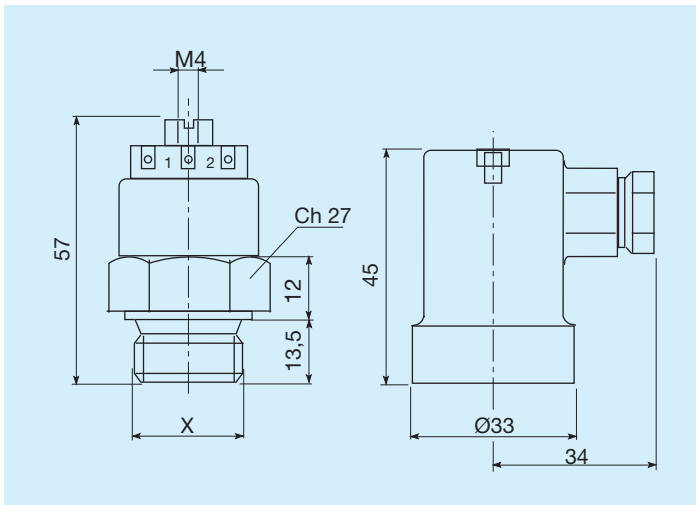
Trigger temperature C°	Threading	Code
45 - 35	M22x1.5	FR361104535R
60 - 50	M22x1.5	FR361106050R
80 - 70	M22x1.5	FR361108070R
82 - 68	M22x1.5	FR361108268R
85 - 76	M22x1.5	FR361108576R

IP54 protected thermal switch



Trigger temperature C°	Threading	Code
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

IP65 protected thermal switch



Trigger temperature C°	Threading	Code
45 - 35	M22x1.5	FR361154535R
47 - 36	M22x1.5	FR361155040R
60 - 50	M22x1.5	FR361176050R
80 - 70	M22x1.5	FR361158070R