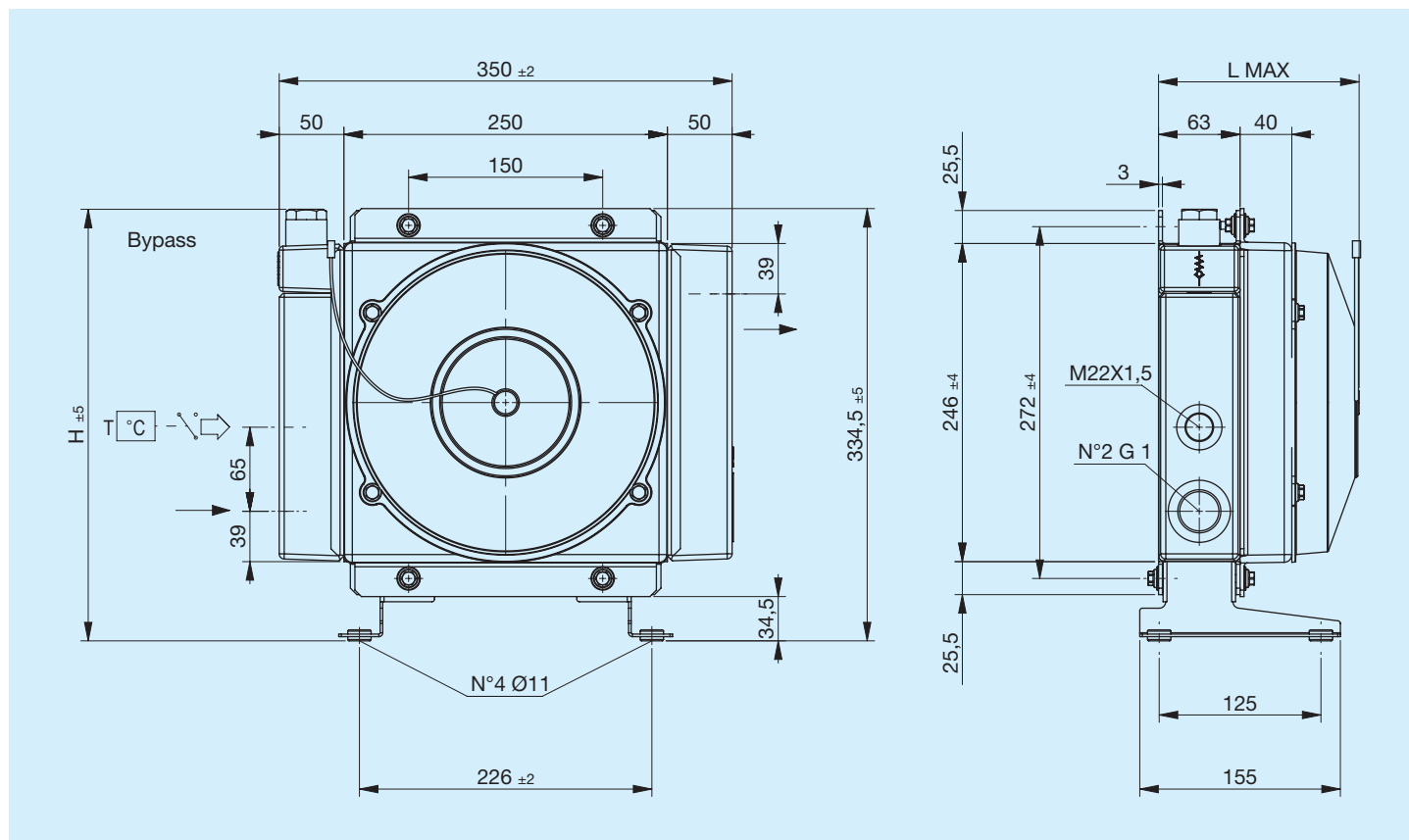


A22

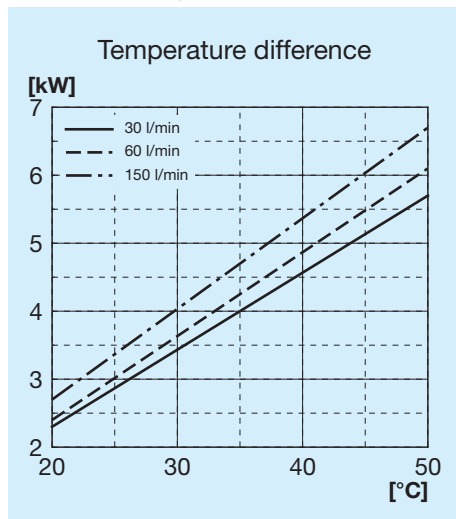


Before using the heat exchanger, carefully read the document entitled GENERAL OPERATING INSTRUCTIONS FOR HEAT EXCHANGER USE

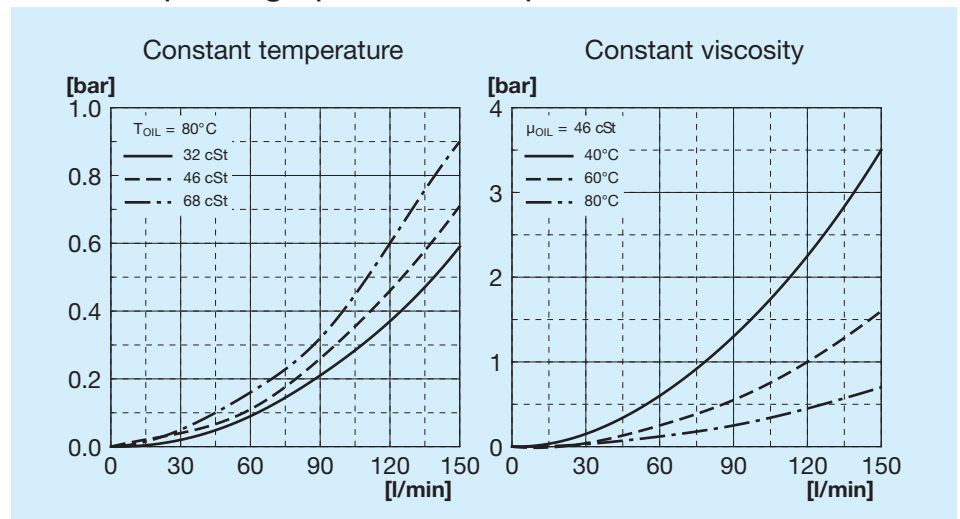


Code	Description	Ø Fan mm	Air flow m³/h	Voltage V	Ampe- rage A	L Max mm	H mm	Weight Kg	Capacity l
FR633113103	A22 1EAP 12V bypass T15 V.T. 3 bar 60°C	225	1060	12	7.1	160	334	5.5	1.7
FR633113104	A22 1ESP 12V bypass T15 V.T. 3 bar 60°C	225	1060	12	7.1	160	334	5.5	1.7
FR633111003	A22 1EAP 12V bypass T15 VNR 4.5 bar	225	1060	12	7.1	160	318	5.5	1.7
FR633111004	A22 1ESP 12V bypass T15 VNR 4.5 bar	225	1060	12	7.1	160	318	5.5	1.7
FR633113113	A22 1EAP 24V bypass T15 V.T. 3 bar 60°C	225	1060	24	3.5	160	334	5.5	1.7
FR633113114	A22 1ESP 24V bypass T15 V.T. 3 bar 60°C	225	1060	24	3.5	160	334	5.5	1.7
FR633111013	A22 1EAP 24V bypass T15 VNR 4.5 bar	225	1060	24	3.5	160	318	5.5	1.7
FR633111014	A22 1ESP 24V bypass T15 VNR 4.5 bar	225	1060	24	3.5	160	318	5.5	1.7
FR633110003	A22 1EAP 12V	225	1060	12	7.1	160	335.5	5.5	1.7
FR633110004	A22 1ESP 12V	225	1060	12	7.1	160	335.5	5.5	1.7
FR633110013	A22 1EAP 24V	225	1060	24	3.5	160	335.5	5.5	1.7
FR633110014	A22 1ESP 24V	225	1060	24	3.5	160	335.5	5.5	1.7

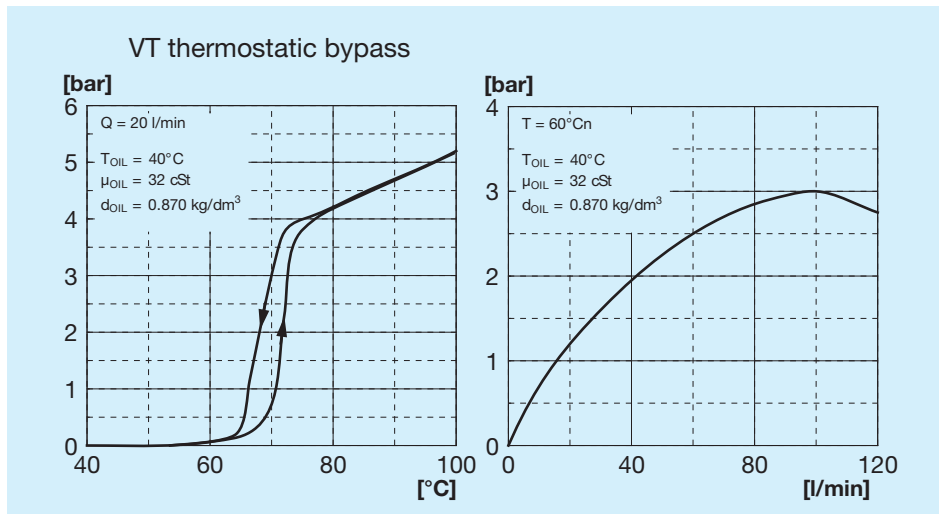
Heat exchange (thermal) capacity



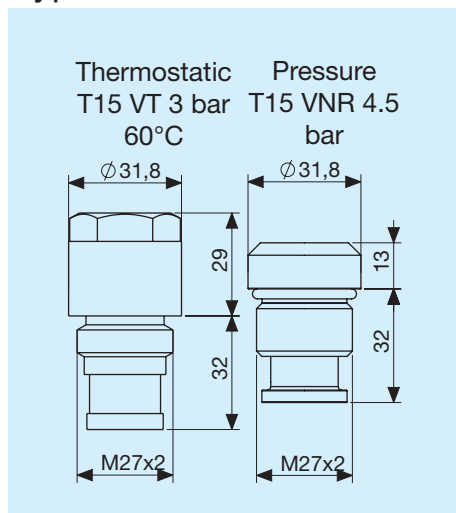
Radiator passage pressure drop



Bypass passage load loss

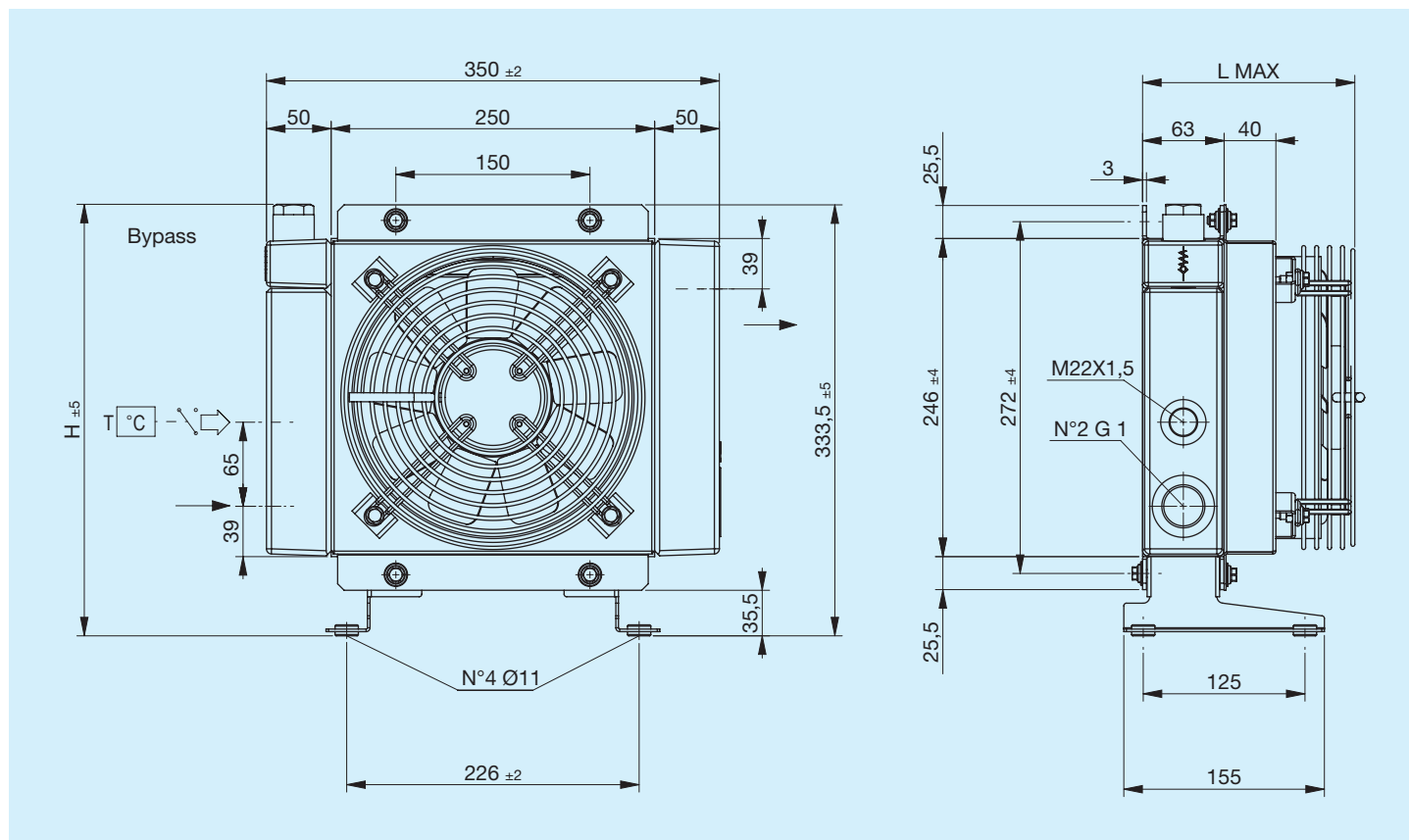


Bypass valves



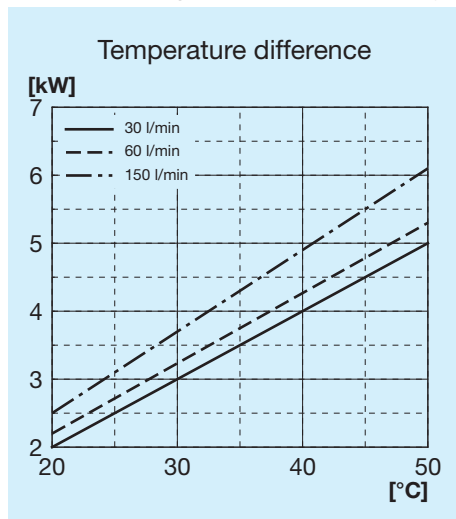
Legend

A22	Exchanger type
1E	1 Fan unit
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 60u00b0C
T15 VNR	Pressure bypass valve at 4.5 bar

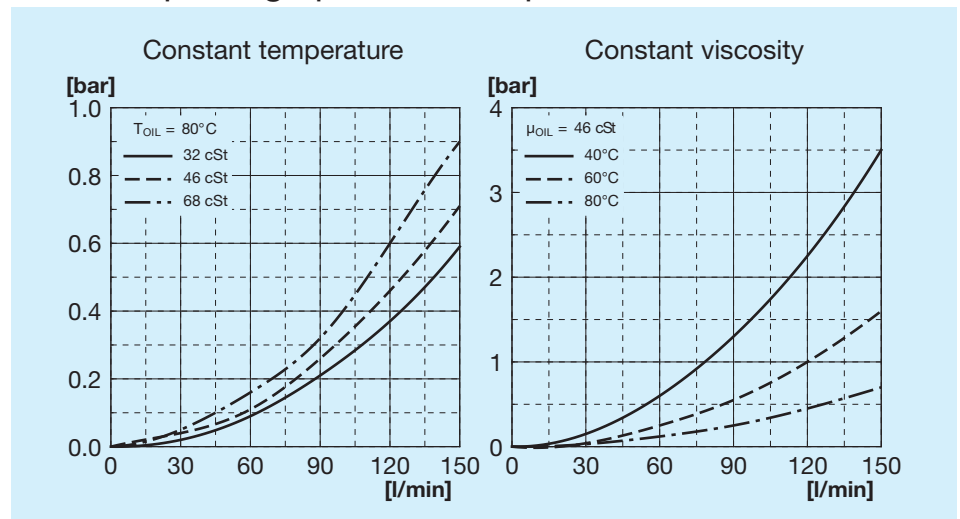


Code	Description	Ø Fan mm	Power W	Frequen- cy Hz	Velocity min ⁻¹	IP Rating	L Max mm	H mm	Weight Kg	Capacity l
FR633113131	A22 1EA 230V bypass T15 V.T. 3 bar 60°C	200	76	50 60	2600 2900	44	165	334	7.5	1.45
FR633113132	A22 1ES 230V bypass T15 V.T. 3 bar 60°C	200	76	50 60	2600 2900	44	165	334	7.5	1.45
FR633111031	A22 1EA 230V bypass T15 VNR 4.5 bar	200	76	50 60	2600 2900	44	165	318	7.5	1.45
FR633111032	A22 1ES 230V bypass T15 VNR 4.5 bar	200	76	50 60	2600 2900	44	165	318	7.5	1.45
FR633113121	A22 1EA 400V bypass T15 V.T. 3 bar 60°C	200	76	50 60	2600 2900	44	165	334	7.5	1.45
FR633113122	A22 1ES 400V bypass T15 V.T. 3 bar 60°C	200	76	50 60	2600 2900	44	165	334	7.5	1.45
FR633111021	A22 1EA 400V bypass T15 VNR 4.5 bar	200	76	50 60	2600 2900	44	165	318	7.5	1.45
FR633111022	A22 1ES 400V bypass T15 VNR 4.5 bar	200	76	50 60	2600 2900	44	165	318	7.5	1.45
FR633110031	A22 1EA 230V	200	76	50 60	2600 2900	44	165	335.5	7.5	1.45
FR633110032	A22 1ES 230V	200	76	50 60	2600 2900	44	165	335.5	7.5	1.45
FR633110021	A22 1EA 400V	200	76	50 60	2600 2900	44	165	335.5	7.5	1.45
FR633110022	A22 1ES 400V	200	76	50 60	2600 2900	44	165	335.5	7.5	1.45

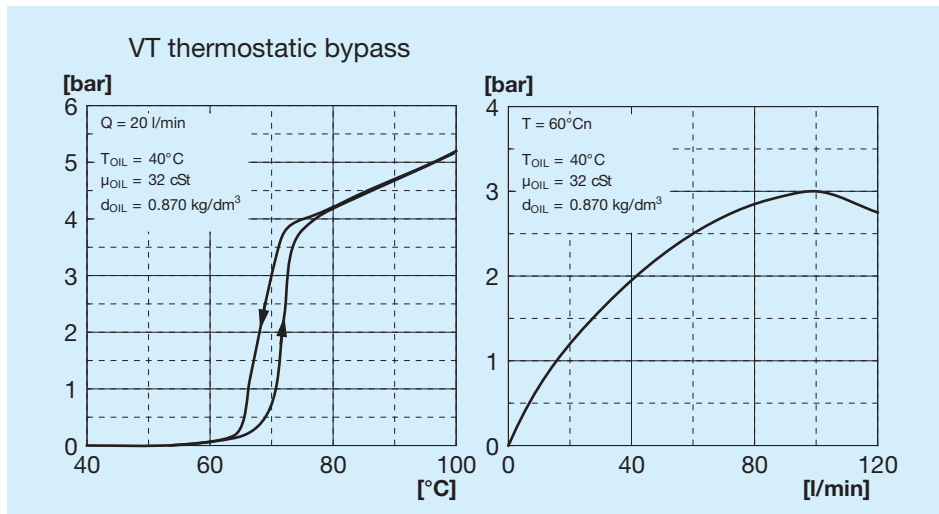
Heat exchange (thermal) capacity



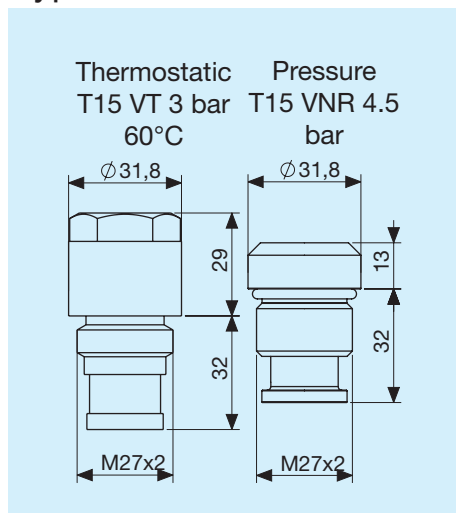
Radiator passage pressure drop



Bypass passage load loss

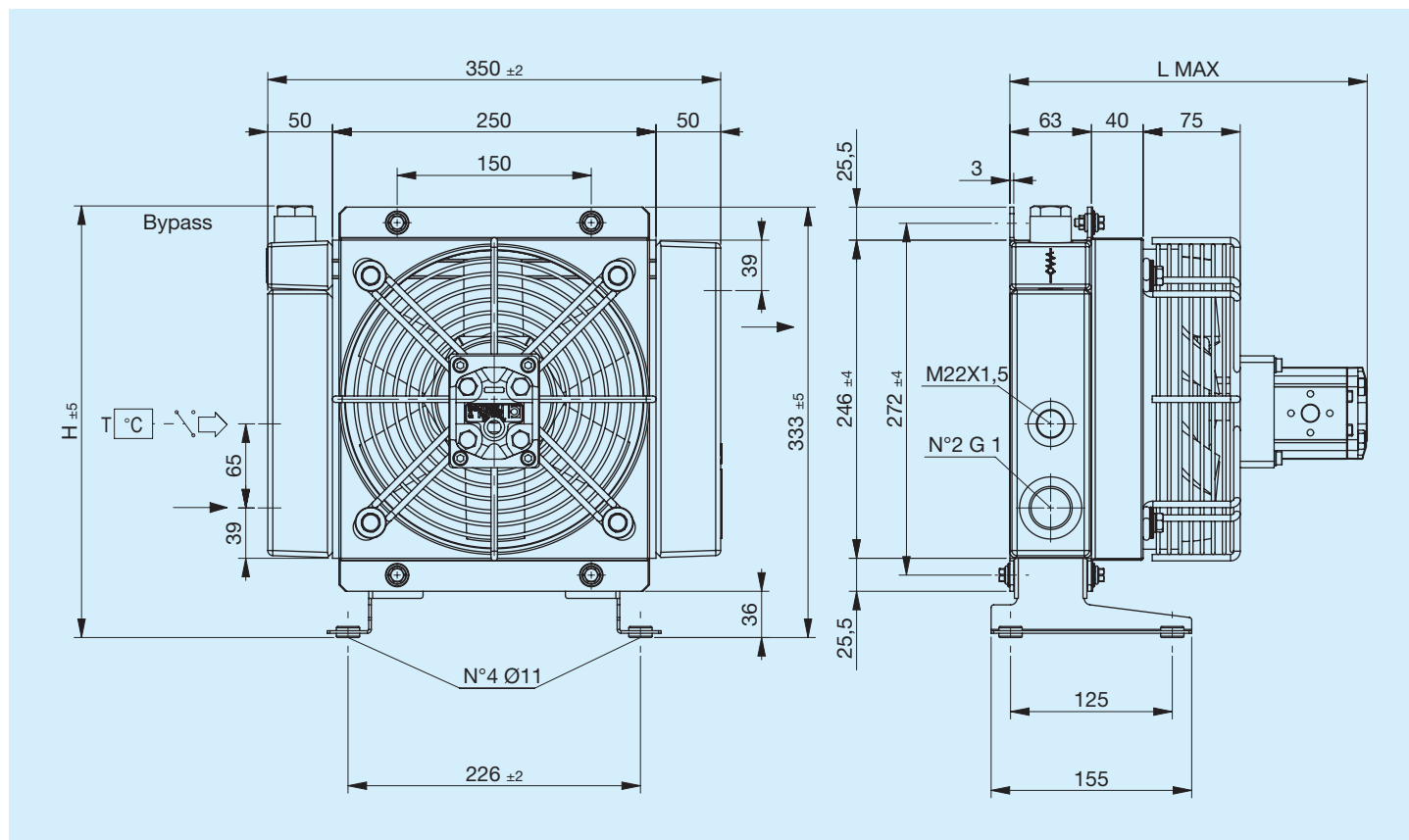


Bypass valves



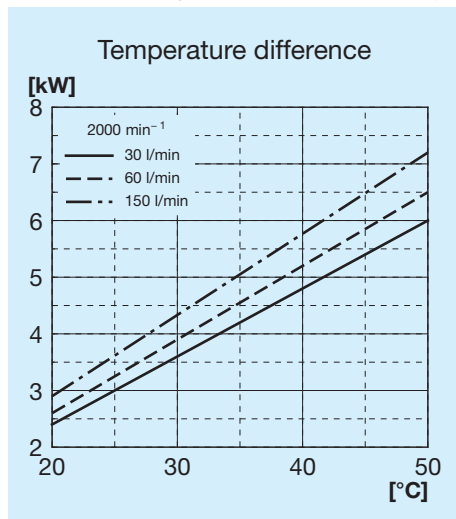
Legend

A22	Exchanger type
1E	1 Fan unit
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 60u00b0C
T15 VNR	Pressure bypass valve at 4.5 bar

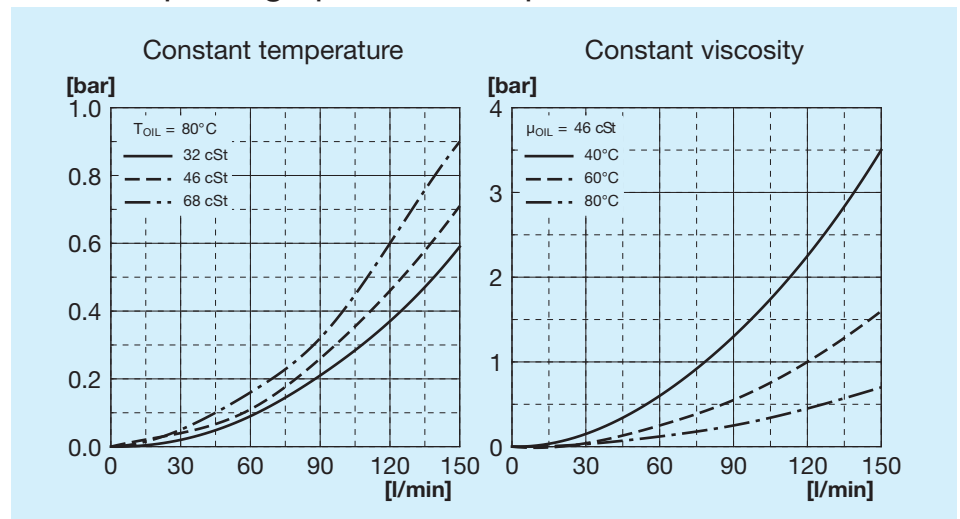


Code	Description	Ø Fan	Displacement motors	L Max	H	Weight	Capacity
		mm	cm ³ /h	mm	mm	Kg	l
FR634113113	A22 IA HYDR.MOT. GR1 bypass T15 V.T. 3 bar 60°C	220	6	275	334	9	1.7
FR634113114	A22 IS HYDR.MOT. GR1 bypass T15 V.T. 3 bar 60°C	220	6	275	334	9	1.7
FR634111013	A22 IA HYDR.MOT. GR1 bypass T15 VNR 4.5 bar	220	6	275	318	9	1.7
FR634111014	A22 IS HYDR.MOT. GR1 bypass T15 VNR 4.5 bar	220	6	275	318	9	1.7
FR634110013	A22 IA HYDR.MOT. GR1	220	6	275	335.5	9	1.7
FR634110014	A22 IS HYDR.MOT. GR1	220	6	275	335.5	9	1.7

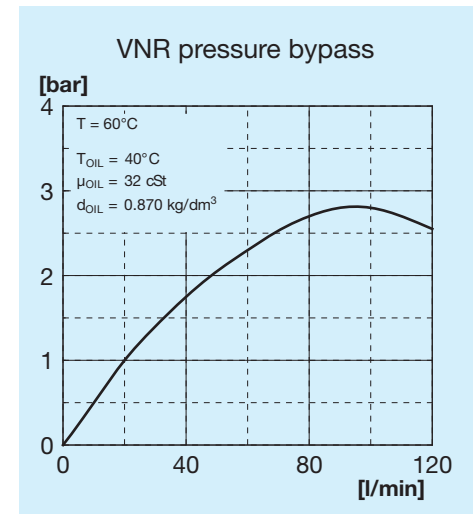
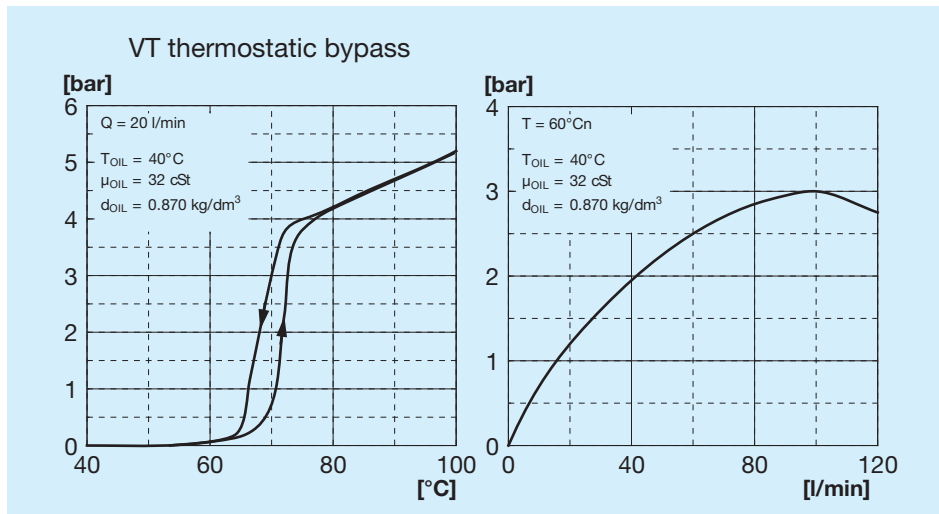
Heat exchange (thermal) capacity



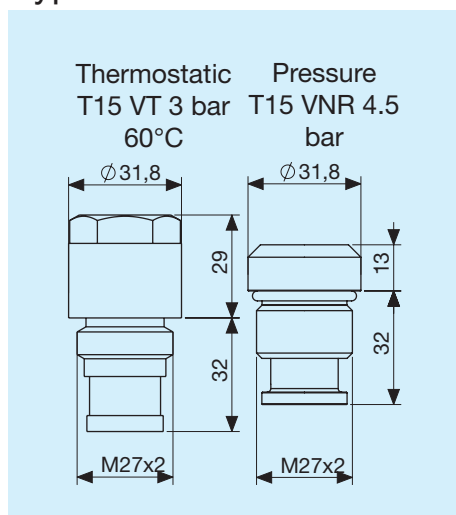
Radiator passage pressure drop



Bypass passage load loss



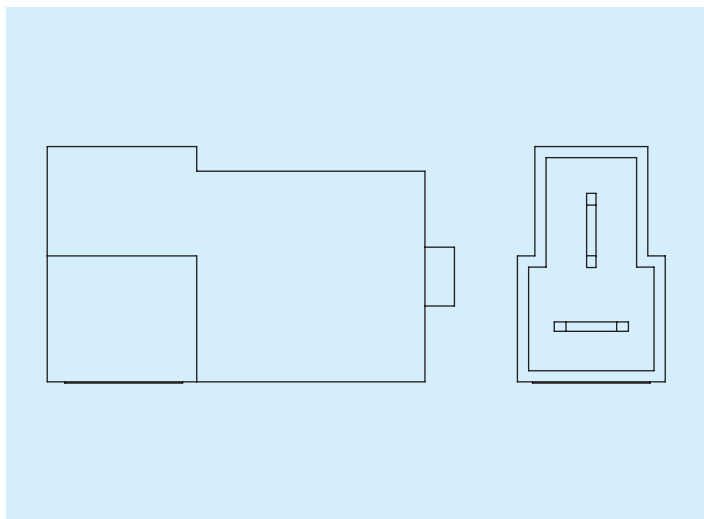
Bypass valves



Legend

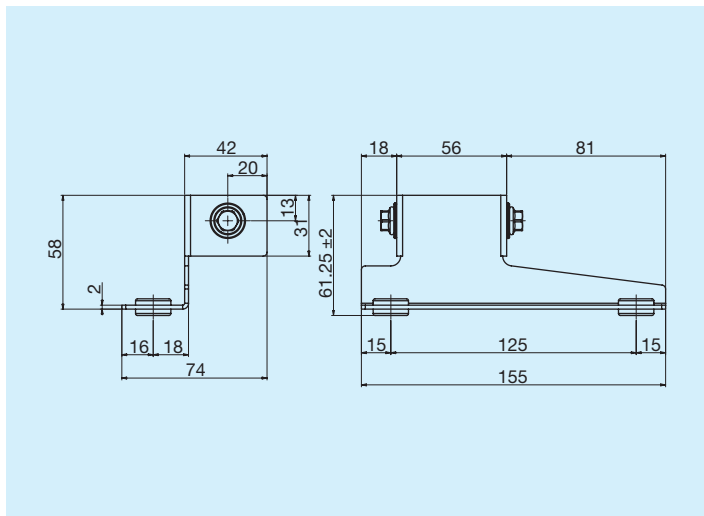
A22	Exchanger type
1E	1 Fan unit
AP	High power aspirating
SP	High power blower
AX	Extra high power aspirating
SX	Extra high power blower
12V	Fan unit voltage
24V	Fan unit voltage
T15 VT	Thermostatic bypass valve 3 bar 60u00b0C
T15 VNR	Pressure bypass valve at 4.5 bar

Connector

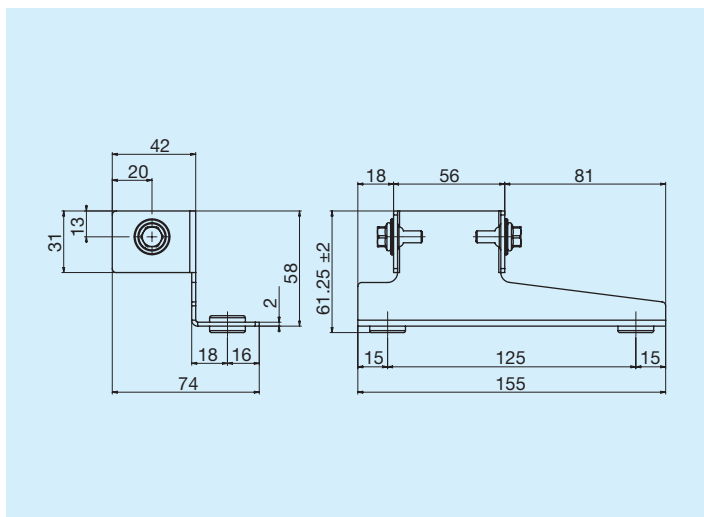


	Code
AMP connector	180908

Left supporting foot

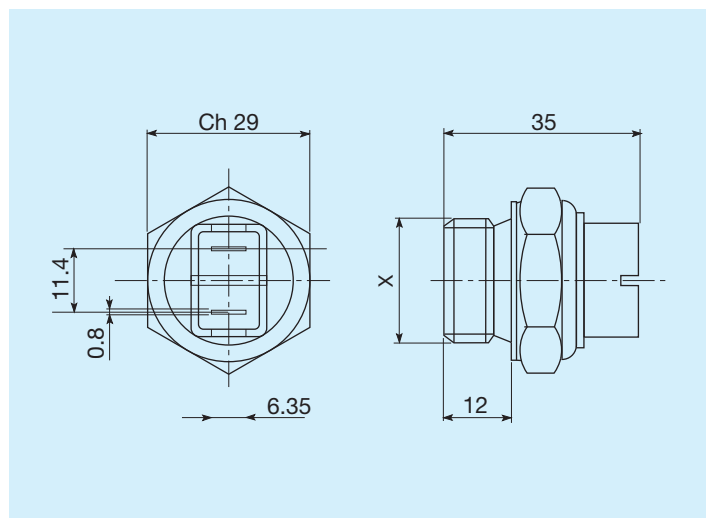


	Code
Left supporting foot	FR290000011



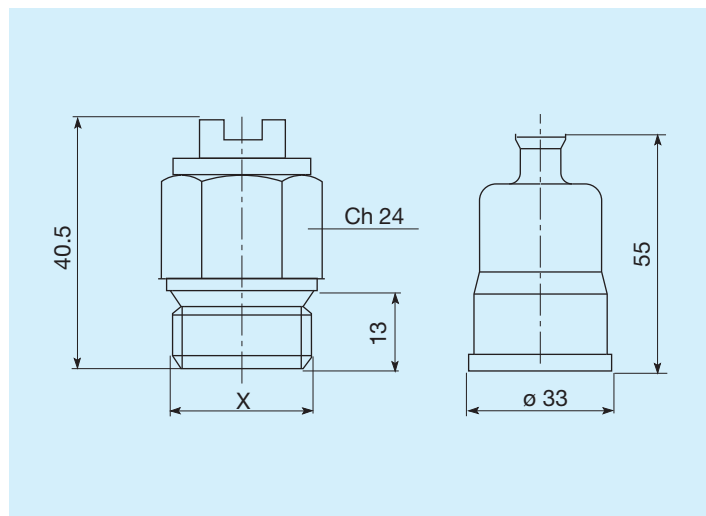
	Code
Right supporting foot	FR290000012

Thermostats



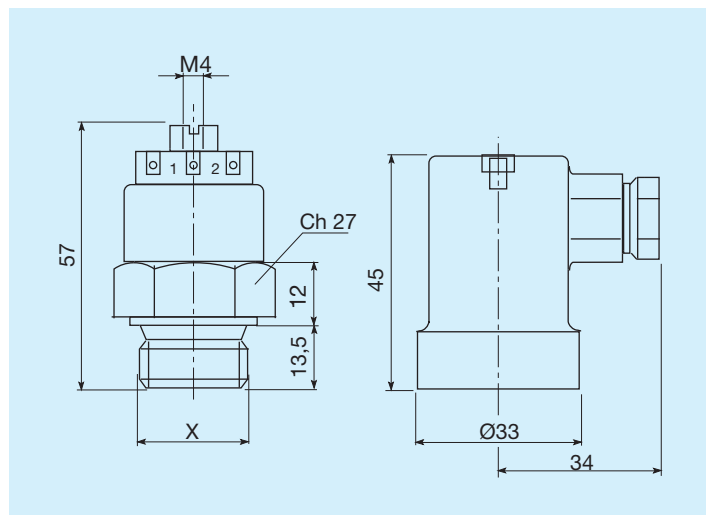
Trigger temperature °C		Code
45 - 35	M22x1.5	FR 361104535
60 - 50	M22x1.5	FR 361106050
80 - 70	M22x1.5	FR 361108070
82 - 68	M22x1.5	FR 361108268
85 - 76	M22x1.5	FR 361108576

IP54 protected thermal switch



Trigger temperature °C		Code
45 - 35	M22x1.5	FR 361124535
50 - 40	M22x1.5	FR 361125040
60 - 50	M22x1.5	FR 361126050
70 - 60	M22x1.5	FR 361127060
80 - 70	M22x1.5	FR 361128070

IP65 protected thermal switch



Trigger temperature °C		Code
45 - 35	M22x1.5	FR 361154535
47 - 36	M22x1.5	FR 361155040
60 - 50	M22x1.5	FR 361156050
80 - 70	M22x1.5	FR 361158070