

Specifications

TECHNICAL SPECIFICATIONS AND VERSIONS

Compressor model	Displacement		Cyl. number	Oil charge	Net weight	Design versions					
						motor voltage code					
	(cm ³ /rev)	(m ³ /h)*		(dm ³)	(kg)	1	3	4	5	6	9
LTZ 22 JE	48.06	8.36	1	0.95	21	S-VE	S-VE	S-VE	S-VE	-	S-VE
LTZ 28 JH	67.89	11.81	1	0.95	23	S-VE	S-VE	S-VE	S-VE	-	S-VE
LTZ 40 HL	96.13	16.73	2	1.8	35	-	-	VE	-	-	-
LTZ 44 HM	107.71	18.74	2	1.8	35	VE	VE	VE	-	VE	VE
LTZ 50 HP	135.78	23.63	2	1.8	35	VE	VE	VE	-	VE	VE
LTZ 88 HU	215.44	37.49	4	3.9	62	-	VE	VE	-	VE	VE
LTZ 100 HW	271.55	47.25	4	3.9	64	-	VE	VE	-	VE	VE

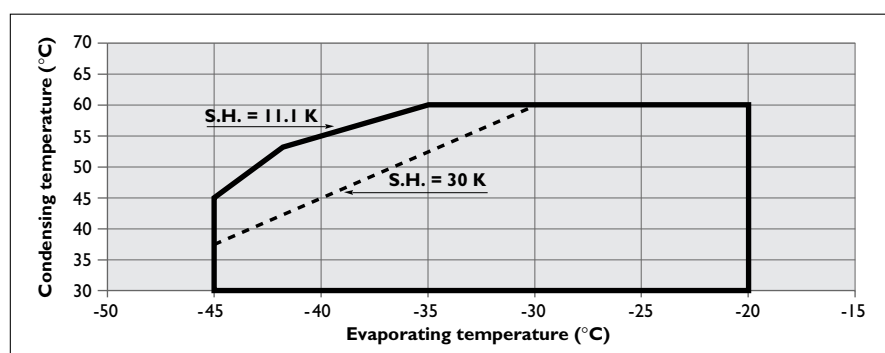
* At 2900 rpm • S: without oil sight glass and oil equalisation connection • VE: with threaded oil sight glass and 3/8" flare oil equalisation connection.

NOMINAL PERFORMANCE R404A, R507- 50 HZ

Compressor model	NOMINAL RATINGS * R404A, R507					
	Cooling capacity (W)	Power input (kW)	Current input (A)			COP (W/W)
			400V / 3 ph	230V / 1 ph	230V / 3 ph	
LTZ 22 JE	825	945	2.14	5.36	-	0.87
LTZ 28 JH	1 264	1 369	2.85	7.81	-	0.92
LTZ 40 HL	1 934	2 206	4.42	-	-	0.88
LTZ 44 HM	2 115	2 578	5.72	-	13.05	0.82
LTZ 50 HP	2 917	3 401	6.29	-	13.15	0.86
LTZ 88 HU	4 002	4 810	9.62	-	15.88	0.83
LTZ 100 HW	5 545	6 017	10.28	-	16.69	0.92

* Ratings with R404A at dew point conditions or with R507: - 35°C evaporating temperature, 40°C condensing temperature, 0 K subcooling, 10 K superheat, 50 Hz
Capacity and power input data ± 5%

OPERATING ENVELOPE



Application Envelope
for LTZ compressors with
R404A/R507

Performance tables R404A / R507

400 V / 3 ph / 50Hz

Models	TE	-45			-40			-35			-30			-25			-20		
	TC	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C
LTZ 22 JE 4	30	470	0.62	1.7	740	0.76	2.0	1 090	0.92	2.3	1 530	1.10	2.6	2 090	1.30	2.8	2 770	1.53	3.1
	40	340	0.63	1.6	550	0.78	1.8	820	0.95	2.1	1 190	1.14	2.4	1 640	1.35	2.7	2 200	1.59	3.0
	50	-	-	-	370	0.77	1.8	550	0.95	2.1	810	1.15	2.4	1 140	1.37	2.7	1 560	1.62	3.0
	60	-	-	-	-	-	-	440	0.94	2.2	570	1.15	2.5	760	1.38	2.8	1 020	1.65	3.0
LTZ 28 JH 4	30	920	0.87	1.9	1 280	1.08	2.3	1 740	1.32	2.7	2 340	1.58	3.1	3 070	1.87	3.5	3 980	2.19	4.0
	40	560	0.90	2.0	870	1.12	2.4	1 260	1.37	2.8	1 760	1.65	3.3	2 380	1.95	3.8	3 150	2.30	4.3
	50	-	-	-	550	1.12	2.4	850	1.38	2.9	1 230	1.68	3.4	1 710	2.01	3.9	2 310	2.38	4.5
	60	-	-	-	-	-	-	560	1.35	2.8	800	1.67	3.3	1 130	2.03	3.9	1 540	2.43	4.6
LTZ 40 HL 4	30	1 200	1.45	3.2	1 720	1.78	3.7	2 420	2.14	4.3	3 340	2.54	4.9	4 510	2.97	5.5	5 950	3.43	6.1
	40	950	1.50	3.2	1 360	1.83	3.8	1 930	2.21	4.4	2 690	2.61	5.0	3 660	3.05	5.7	4 880	3.52	6.3
	50	-	-	-	910	1.84	3.8	1 310	2.22	4.4	1 870	2.64	5.1	2 600	3.09	5.7	3 550	3.57	6.4
	60	-	-	-	-	-	-	880	2.20	4.3	1 200	2.63	4.9	1 670	3.09	5.6	2 310	3.59	6.3
LTZ 44 HM 4	30	1 170	1.81	5.0	1 810	2.19	5.3	2 660	2.58	5.7	3 760	2.96	6.1	5 140	3.34	6.5	6 820	3.70	7.0
	40	900	1.75	4.9	1 420	2.16	5.3	2 110	2.58	5.7	3 020	3.00	6.2	4 170	3.43	6.6	5 580	3.84	7.2
	50	-	-	-	910	2.07	5.2	1 410	2.53	5.7	2 070	3.00	6.2	2 950	3.48	6.7	4 050	3.95	7.3
	60	-	-	-	-	-	-	930	2.37	5.5	1 330	2.90	6.0	1 880	3.44	6.6	2 630	3.98	7.3
LTZ 50 HP 4	30	1 770	2.49	5.2	2 560	2.95	5.7	3 590	3.42	6.2	4 890	3.87	6.8	6 470	4.31	7.3	8 390	4.72	7.9
	40	1 370	2.37	5.1	2 050	2.88	5.7	2 920	3.40	6.3	4 010	3.93	6.9	5 370	4.45	7.6	7 020	4.95	8.3
	50	-	-	-	1 330	2.75	5.5	1 990	3.34	6.2	2 850	3.95	7.0	3 920	4.57	7.8	5 250	5.19	8.7
	60	-	-	-	-	-	-	1 230	3.14	5.9	1 800	3.85	6.8	2 540	4.59	7.8	3 500	5.33	8.8
LTZ 88 HU 4	30	2 140	3.59	7.3	3 280	4.12	8.4	4 800	4.65	9.4	6 760	5.19	10.3	9 220	5.72	11.2	12 230	6.25	12.0
	40	1 720	3.54	7.5	2 700	4.16	8.6	4 000	4.81	9.6	5 690	5.49	10.6	7 830	6.20	11.6	10 480	6.93	12.5
	50	-	-	-	1 650	3.97	8.6	2 670	4.77	9.7	4 030	5.63	10.8	5 770	6.54	11.8	7 970	7.50	12.7
	60	-	-	-	-	-	-	1 470	4.34	9.4	2 410	5.40	10.5	3 690	6.54	11.6	5 350	7.76	12.7
LTZ 100 HW 4	30	3 370	4.50	8.0	4 880	5.27	9.2	6 830	6.03	10.4	9 290	6.77	11.6	12 300	7.47	12.8	15 940	8.11	14.0
	40	2 530	4.19	7.6	3 850	5.09	8.9	5 550	6.02	10.3	7 690	6.96	11.7	10 330	7.89	13.1	13 550	8.80	14.4
	50	-	-	-	2 340	4.74	8.7	3 710	5.87	10.3	5 450	7.05	11.9	7 650	8.27	13.5	10 340	9.49	15.1
	60	-	-	-	-	-	-	2 040	5.34	10.2	3 300	6.81	12.0	4 950	8.34	13.9	7 020	9.93	15.8

230 V / 1 ph / 50Hz

Models	TE	-45			-40			-35			-30			-25			-20		
	TC	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C	P.F.	P.A.	C
LTZ 22 JE 5	30	470	0.62	4.2	740	0.76	4.9	1 090	0.92	5.7	1 530	1.10	6.4	2 090	1.30	7.1	2 770	1.53	7.8
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	50	-	-	-	370	0.77	4.5	550	0.95	5.3	810	1.15	6.0	1 140	1.37	6.8	1 560	1.62	7.5
	60	-	-	-	-	-	-	440	0.94	5.4	570	1.15	6.2	760	1.38	6.9	1 020	1.65	7.6
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	50	-	-	-	550	1.12	6.6	850	1.38	7.9	1 230	1.68	9.3	1 710	2.01	10.8	2 310	2.38	12.4
	60	-	-	-	-	-	-	560	1.35	7.5	800	1.67	9.1	1 130	2.03	10.7	1 540	2.43	12.5

LEGEND

TE evaporating temperature (°C)
 TC condensing temperature (°C)

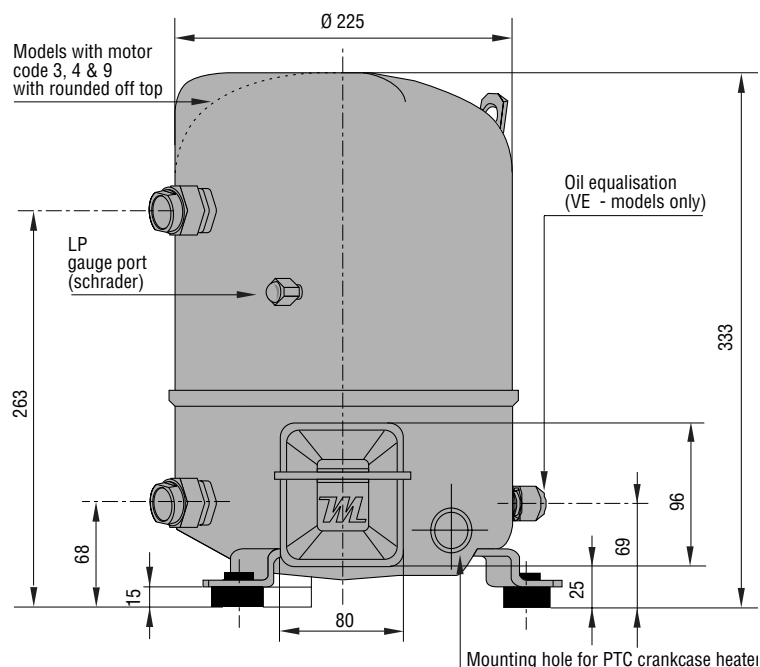
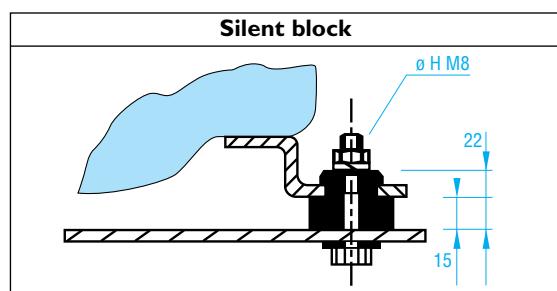
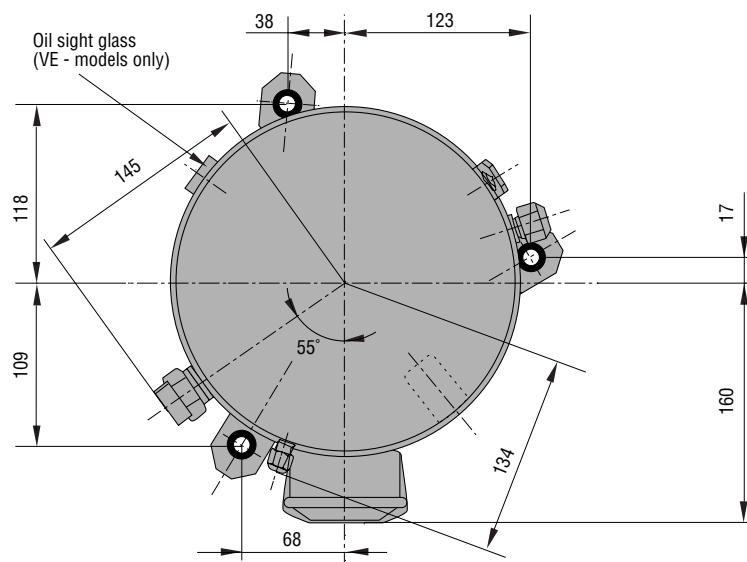
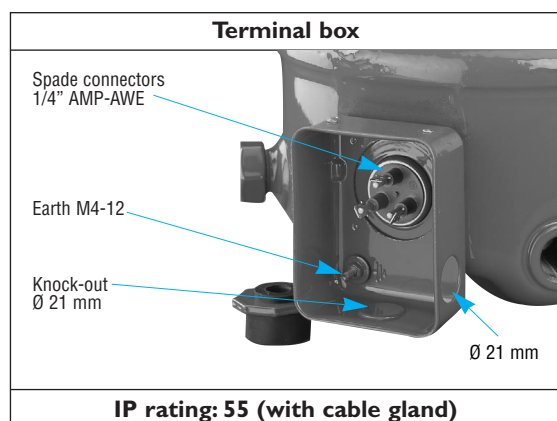
P.F. cooling capacity (W)
 P.A. power input (kW)
 C current consumption (A)

RATING CONDITIONS

Superheat 10 K
 Subcooling 0 K

Outline drawings

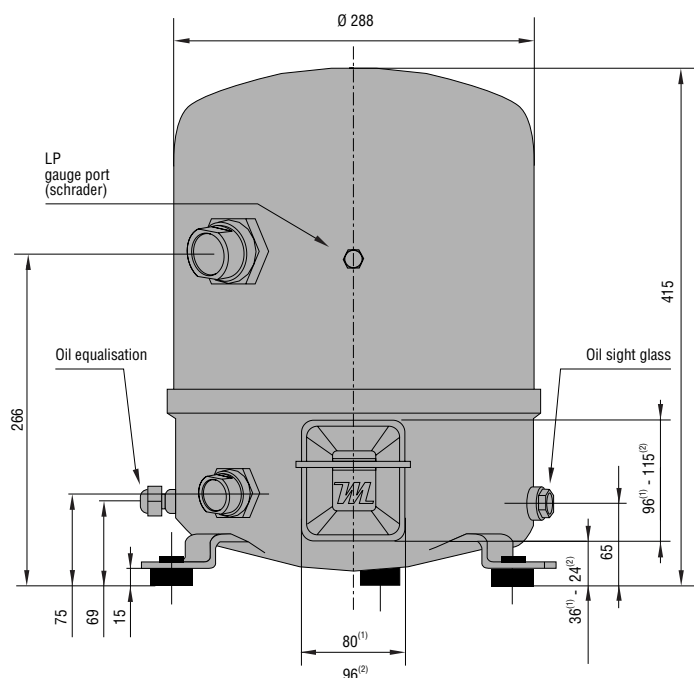
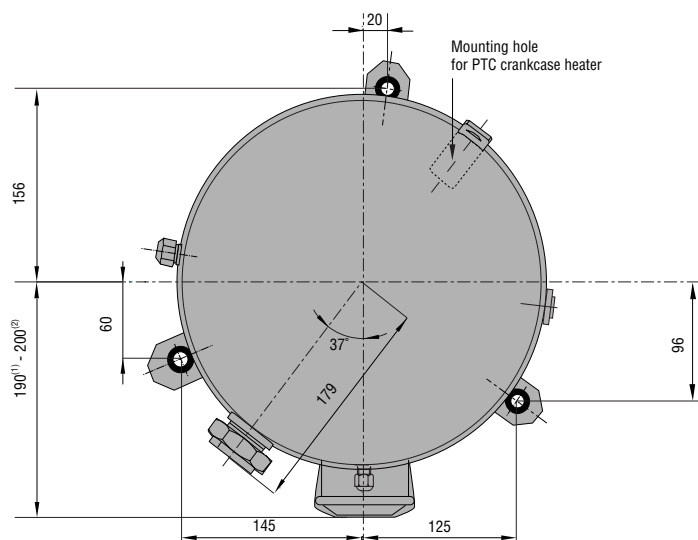
I CYLINDER



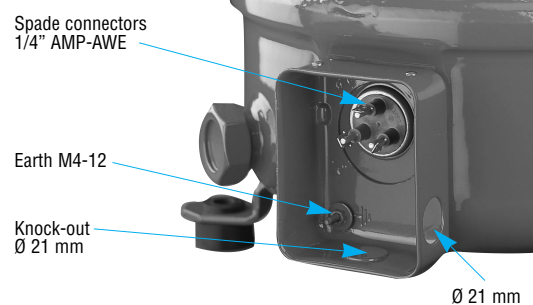
	Rotolock connections size		Pipe sizing size		Rotolock valve	
	Suction	Discharge	Suction	Discharge	Suction	Discharge
LTZ 22 JE LTZ 28 JH	1"1/4	1"	5/8"	1/2"	V09	V06

Outline drawings

2 CYLINDERS

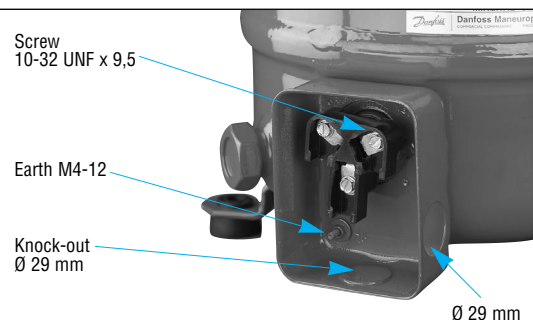


Terminal box



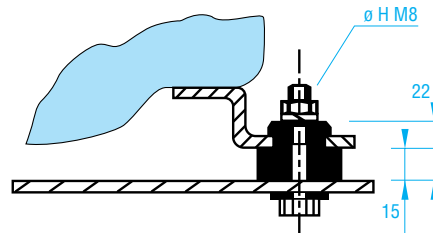
IP rating: 55 (with cable gland)

Terminal box for motor code 6



IP rating: 54 (with cable gland)

Silent block



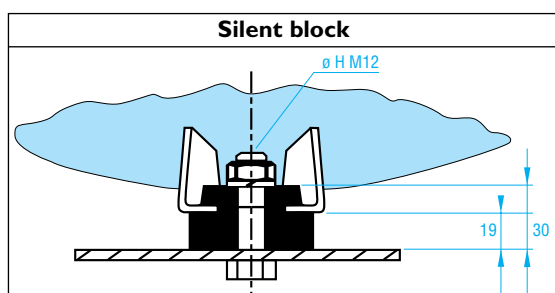
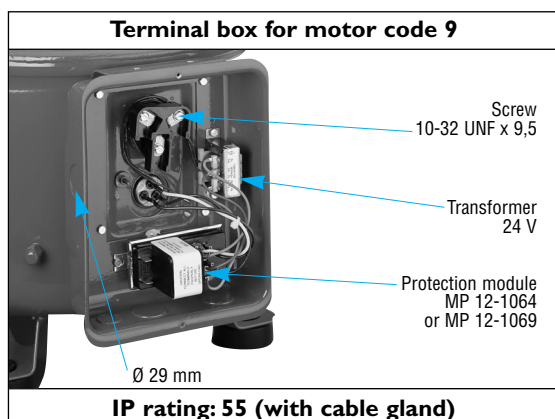
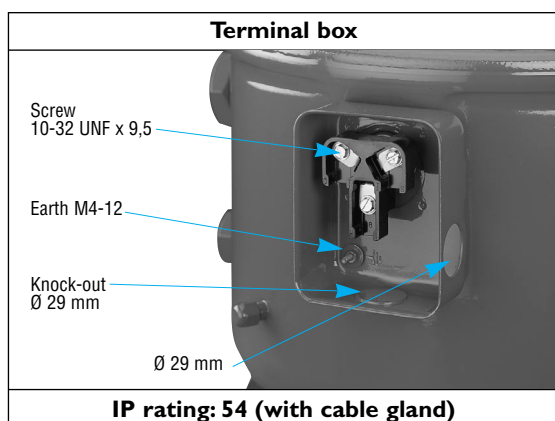
(1) LTZ 2 cyl. Code 1-3-4-9

(2) LTZ 2 cyl. Code 6

	Rotolock connections size		Pipe sizing size		Rotolock valve	
	Suction	Discharge	Suction	Discharge	Suction	Discharge
LTZ 40 HL LTZ 44 HM	1"3/4	1"1/4	7/8"	3/4"	V07	V04
LTZ 50 HP	1"3/4	1"1/4	1"1/8	3/4"	V02	V04

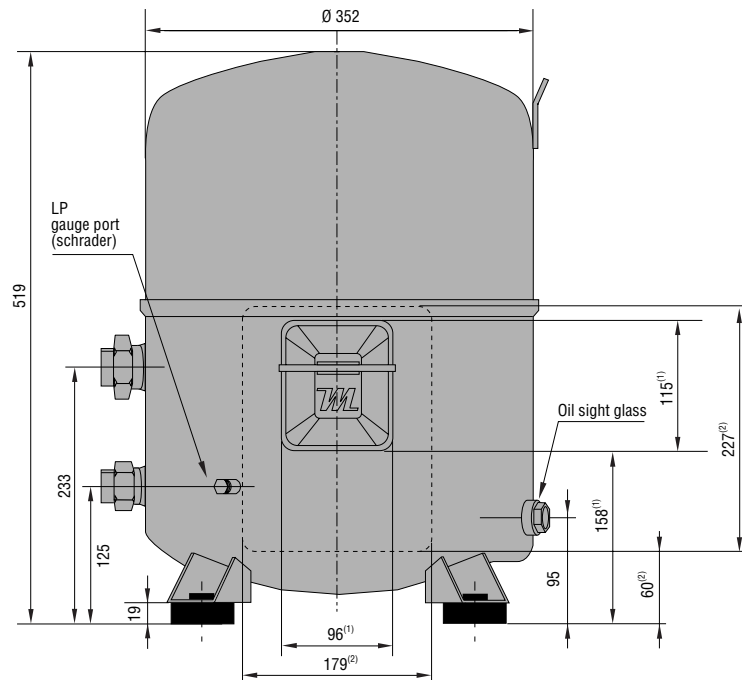
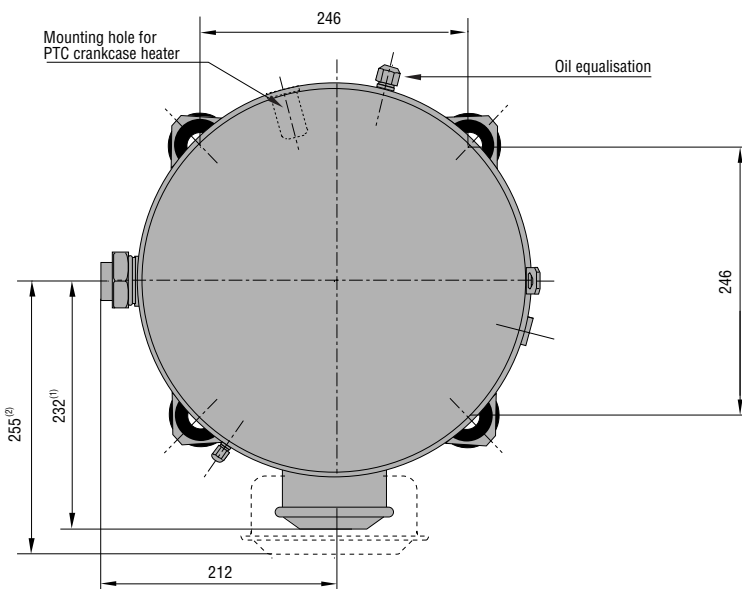
Outline drawings

4 CYLINDERS



⁽¹⁾ LTZ 4 cyl. Code 3-4-6

⁽²⁾ LTZ 4 cyl. Code 9



	Rotolock connections size		Pipe sizing size		Rotolock valves	
	Suction	Discharge	Suction	Discharge	Suction	Discharge
LTZ 88 HU LTZ 100 HW	1"3/4	1"1/4	1"1/8	3/4"	V02	V04