

# PRODUCT CATALOG

MADE IN TURKEY

## Pressure, Level and Pump Control Devices



 **ELEMENT**<sup>®</sup>  
"Power Control"

# ELEMENT®



## Automatic Pump Control

- ✓ 100% Made in Turkey
- ✓ Low Cost, Easy Installation
- ✓ Protection for Water Shortage
- ✓ Electric Connection Cable
- ✓ Engine Power Supply Socket



ELEMENT®



# ELEMENT

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# PRODUCT CATALOG

- Automatic Pump Control
- Monophase Pressure Switch
- Threephase Pressure Switch
- Float Switch For Clean Water
- Float Switch For Waste Water
- Pressostat
- Ball Checkvalve



VERTICAL CONNECTION  
WITH MANOMETER

## ELT-PC1



HORIZONTAL CONNECTION  
WITH MANOMETER

## ELT-PC2

It can be produced with cable or socket upon the request

Inlet	:1"	Voltage	:220/240 V
Outlet	:1"	Max. Current	:16(8) A
Max. Pressure of Use	:10 Bar	Frequency	:50/60 Hz
Max. Temp. of Water	:65 C	Max. Pump Power	:2 HP
Protection	:IP65		



### Pump Operating Pressure

#### can be adjusted between 1 Bar and 4 Bar...

Operating pressure setting of the device shall be adjusted according to the table below.  
Pump operating pressure of the hydromat (commencement pressure) may be adjusted between 1 BAR and 4 BAR depending on pump choice.

FORMULIZATION			
ELT-PC	...	...	...
Preferences	1 , 2	C	S

EXPLANATION	
1	VERTICAL EXIT,WITH MANOMETER
2	HORIZONTAL EXIT,WITH MANOMETER
C	ELECTRIC CABLE
S	PUMP CONNECTION SOCKET

Please leave the options empty which you do not prefer.



Right pump should be chosen which can generate the required pressure that varies up to the place of use. Starting pressure should be adjusted by screwing & unscrewing the adjustment screw behind the pump control device.

Automatic pump control device controls the consumption of the water in the system. Device starts the pump during the usage of water and stops when there is no usage of water. Device protects the pump of dry running by stopping it in case of water cut. If the device is installed on the system as shown in FIGURE 1, it resets itself automatically when there is a minimum flow of water from the water tank to the system and then the system goes on running as usual.

If the device is installed on the system as shown in FIGURE 2, the pump will be automatically stopped in case of the water cut. When the water comes back to flowing, the reset button on the front panel should be pressed in order to restart the device. The system will go on running as usual after pressing the reset button.

The device is compatible with the pumps which are connected to the city-water, water tanks or wells.

FIGURE 1 Usage in Auto Reset case

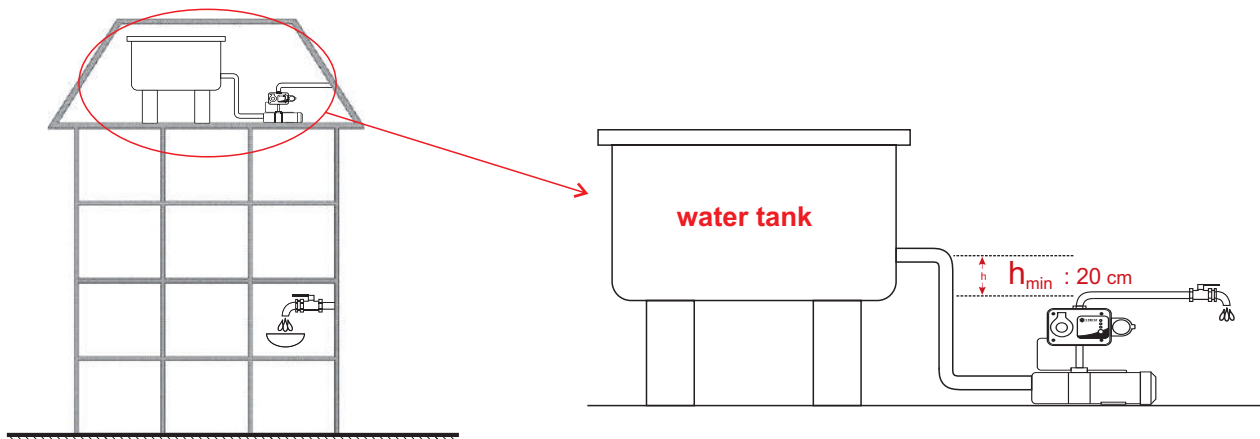
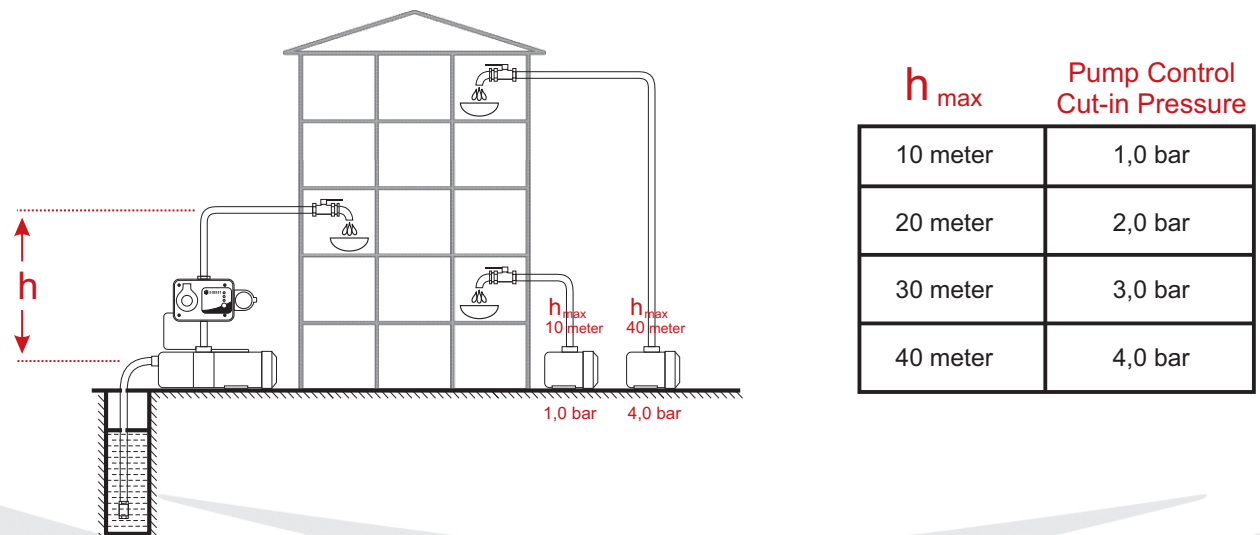


FIGURE 2 Usage in Manual Reset case





Fields of Use: Air compressors, water pumps, hydrophores.

Functions: Monophase pressure switch controls the system and makes it work between the minimum and maximum setting values; at the maximum setting value, the electric contacts opens and stops the motor, at the minimum value, they close and starts the motor.

FORMULIZATION					
ELT-	...	...	...	...	...
Preferences	5, 6	C	0	3Y	1/4", 1/2"

EXPLANATION	
5	1 - 6 BAR
6	2 - 11 BAR
C	UNLOADER
0	ON / OFF BUTTON
3Y	3 WAY
1/4", 1/2"	CONNECTION DIAMETER

Please leave the options empty which you do not prefer.

Standart Electric Contacts	Ms70 brass and E-CU copper (99,9%) alloy with Ag-CdO plating.
ON / OFF Button	By request.
Pressure Sensitive Diaphragm	NBR
Nominal Current	16 A
Nominal Voltage	220-240 V
Max. Medium Temperature C°	55°C
Protection Degree	Ip44
Lifetime Test Results	Electrical 400 000 Cycles Mechanical 1000 000 Cycles

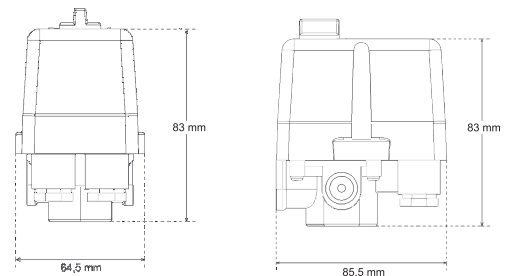
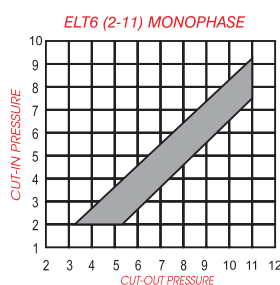
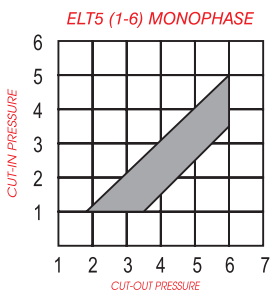
## TECHNICAL DATA

Stock Code	Additional attributes	Pressure Range	Factory Setting	Minimum Differential	Maximum Differential	Net Weight
ELT-5	Without unloader valve	1 / 6 BAR	2 / 3 BAR	1.0 BAR	2,5 BAR	350 gr
ELT-5C	With unloader valve	1 / 6 BAR	2 / 4 BAR	2 BAR	2.8 BAR	430 gr
ELT-6	Without unloader valve	2 / 11 BAR	3.7 / 5 BAR	1.3 BAR	3.5 BAR	350 gr
ELT-6C	With unloader valve	2 / 11 BAR	3 / 5 BAR	2 BAR	3.8 BAR	430 gr

\* UNLOADER VALVE

\* THREE WAY FLANGE

\* COVER WITH ON/OFF BUTTON



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Fields of Use: Air compressors, water pumps, hydrophores.

Functions: Threephase pressure switch controls the system and makes it work between the minimum and maximum setting values; at the maximum setting value, the electric contacts opens and stops the motor, at the minimum value, they close and start the motor.

FORMULIZATION					
ELT-	...	...	...	...	...
Preferences	2, 3, 4	C	O	3Y	1/4", 1/2"

EXPLANATION	
2	2 - 8 BAR
3	3 - 11 BAR
4	4 - 16 BAR
C	UNLOADER
O	ON / OFF BUTTON
3Y	3 WAY
1/4", 1/2"	CONNECTION DIAMETER

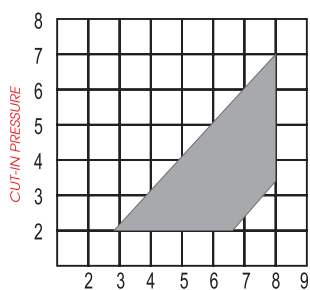
Please leave the options empty which you do not prefer.

Standart Electric Contacts	Ms70 brass and E-CU copper (99,9%) alloy with Ag-CdO plating.
ON / OFF Button	By request.
Pressure Sensitive Diaphragm	NBR
Nominal Current	16 A
Nominal Voltage	380 V
Max. Medium Temperature C°	55° C
Protection Degree	Ip44
Lifetime Test Results	Electrical 400 000 Cycles
	Mechanical 1000 000 Cycles

## TECHNICAL DATA

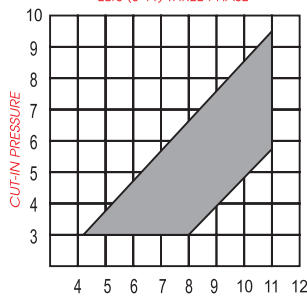
Code	Additional attributes	Pressure Range	Factory Setting	Minimum Differential	Maximum Differential	Net Weight
ELT-2	Without unloader valve	2 / 8 BAR	4 / 5 BAR	0.9 BAR	4.7 BAR	470 gr
ELT-2C	With unloader valve	2 / 8 BAR	3 / 5 BAR	2 BAR	5.0 BAR	540 gr
ELT-3	Without unloader valve	3 / 11 BAR	5.8 / 7 BAR	1.2 BAR	5.3 BAR	470 gr
ELT-3C	With unloader valve	3 / 11 BAR	5 / 7.5 BAR	2.2 BAR	5.6 BAR	540 gr
ELT-4	Without unloader valve	4 / 16 BAR	8.2 / 10 BAR	1.8 BAR	7.5 BAR	470 gr
ELT-4C	With unloader valve	4 / 16 BAR	5 / 8.5 BAR	2.5 BAR	7.8 BAR	540 gr

ELT2 (2-8) THREE-PHASE



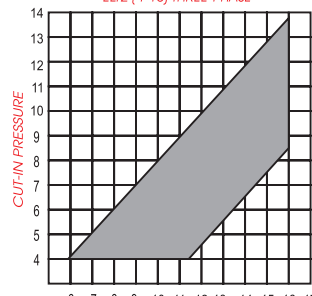
CUT-OUT PRESSURE

ELT3 (3-11) THREE-PHASE

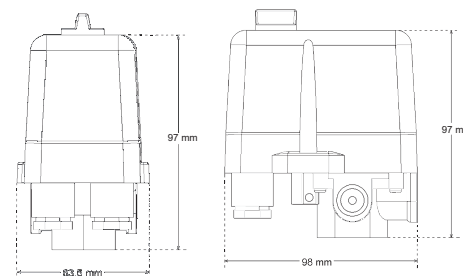


CUT-OUT PRESSURE

ELT2 (4-16) THREE-PHASE



CUT-OUT PRESSURE



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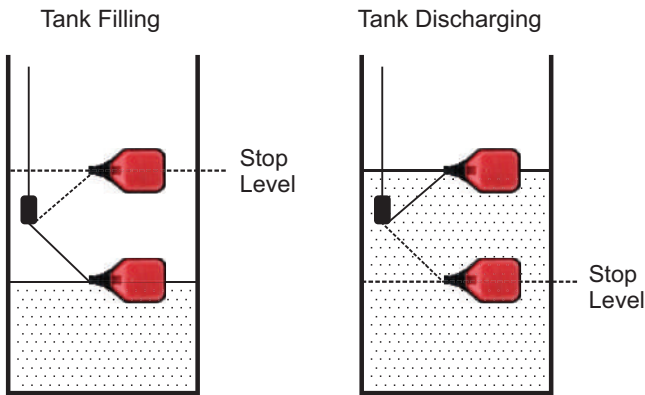




## Float Switch For Clean Water

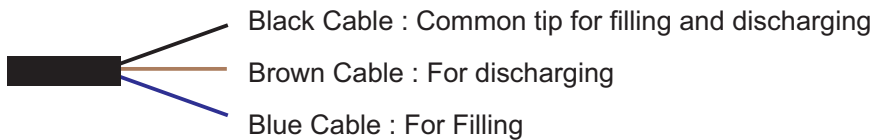


The float switch can be used to control the level of nonaggressive liquids in domestic and industrial plants (tanks, wells). The float switch has a high resistance to the major part of the acids and mineral bases, up to a 10% concentration. The float casing is constituted by an anti-shock polypropylene material and it can be drawn upon solvents at ambient temperature.



FORMULIZATION		
FTE -	...	...
Preferences	60,160,300,500,1000,1500,2000	T, K, A, B

EXPLANATION	
60	0,60 MT. CABLE
160	1,60 MT. CABLE
300	3,00 MT. CABLE
500	5,00 MT. CABLE
1000	10,0 MT. CABLE
1500	15 MT. CABLE
2000	20 MT. CABLE
T	Clean Water/ Nityrl TTR H05-VN-F
K	Clean Water/ Rubber Cable H05-RN-F
A	Waste Water / 90 ° / H05 RN F
B	Waste Water / 40 ° / PUR CABLE 6,30 mm



Functions	The float switch mounting and application is extremely simple. Depending on the demanded operation density, weight parts are regulated and electrical connections are applied. After putting it in water, the system cycle begins. The item is completely waterproof.
Standard Electrical Contacts:	Opening and closing circuit operations are caused from internal silver contact micro switches 16 (10) A
Protection Degree	IP68 (maximum Immersion, 20 M)
Maximum Working Temperature	80 °C
Standart Cable Lengths	0,60 m., 1,60 m., 3,00 m., 5,00 m., 10,00 m., 15,00 m. By request can be produced any other length floaters.
Nominal Voltage	220 Volt AC.
Frequency	50 Hz. / 55 Hz.



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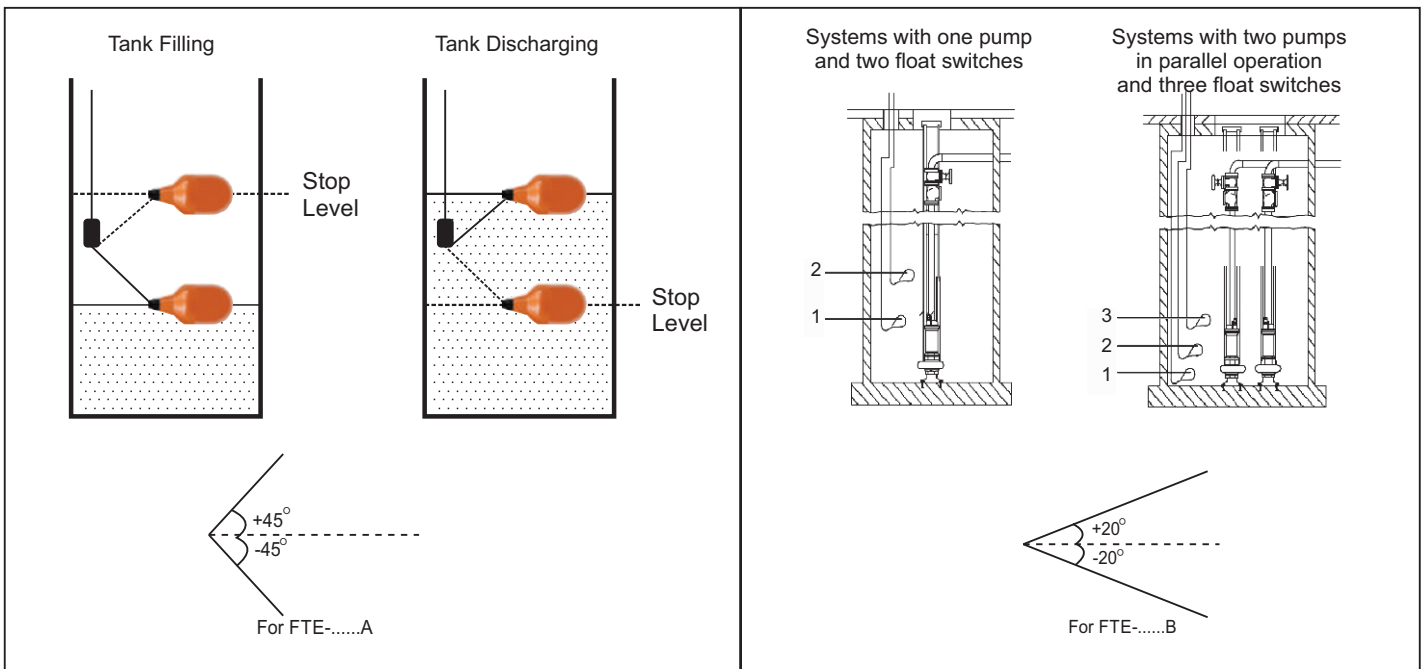
## Float Switch For Waste Water



Waste water floaters control waste water level in domestic and industrial waste water systems. Waste water floaters have different surface design and work properly in the ambient with waste water and different particles. The rubber cable that is used in waste water floaters is durable to many liquid ambient

### For two level control

### For single level control



Standard Electrical Contacts:	Opening and closing circuit operations are caused from internal silver contact micro switches
Protection Degree	IP68 (maximum Immersion, 20 M)
Maximum Working Temperature	80 °C
Standart Cable Lengths	0,60 m., 1,60 m., 3,00 m., 5,00 m., 10,00 m., 15,00 m. By request can be produced any other lenght floaters.
Nominal Voltage	220 Volt AC.
Frequency	50 Hz. / 55 Hz.

FORMULIZATION		
FTE -	...	...
Preferences	60,160,300,500,1000,1500,2000	T, K, A, B

EXPLANATION	
60	0,60 MT. CABLE
160	1,60 MT. CABLE
300	3,00 MT. CABLE
500	5,00 MT. CABLE
1000	10,0 MT. CABLE
1500	15 MT. CABLE
2000	20 MT. CABLE
T	Clean Water/ Nityrl TTR H05-VN-F
K	Clean Water/ Rubber Cable H05-RN-F
A	Waste Water / 90 ° / H05 RN F
B	Waste Water / 40 ° / PUR CABLE 6,30 mm



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Pressostat for control and regulation of all fluids and gases except the propane type. Suitable for compression plants, boilers, tanks, autoclaves, ventilation plants, lubrication plants.

Complies with EN 60947-5-1 standards

## TECHNICAL DATA

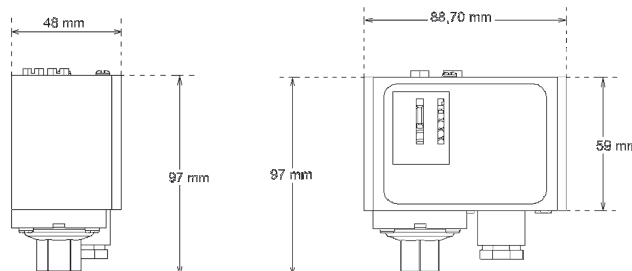
Type	Range (bar)	Differential (bar)	Max.pressure on sensitive element (bar)	Max.fluid temperature °C	Max.presostat body temperature °C	Protection	Net Weight
ELT-35	(-0.2 - 8) BAR	0.6 - 3 BAR	9 BAR	120	(-35 / 60)	IP 40	395 gr
ELT-36	5 - 16 BAR	1 - 3.5 BAR	18 BAR	120	(-35 / 60)	IP 40	395 gr

### FORMULIZATION

ELT-	...	...	...
Preferences	35,36	S, G	1/4" , 7/16"

### EXPLANATION

35	0 - 8 BAR
36	5 - 16 BAR
S	MALE CONNECTION
G	FEMALE CONNECTION
1/4" or 7/16"	CONNECTION DIAMETER



In pressostats current conducting contacts are made of silver alloy and has high durability  
Contact system designed as single pole double throw contact switching system (SPDT design).

## ELECTRICAL DATA

Nominal isolation		UI 415V~	
Continuous duty nominal current		Ith 16A	
Operating nominal current		220V~	380/415V~
Resistive load		AC-1	16 A
Inctive load		AC-3	6 A
Continuous nominal current		AC-13	0,2A
Life tests results	Electrical	400 000	Cycles
	Mechanica	1000 000	Cycles





## BALL CHECK VALVES

While the pump discharges the waste water the check valve ball hides in false-bottom and allows 100% discharging of water and particles. When the pump stops the check valve ball closes the entry and prevents return of fluid back. They can be supplied threaded or flanged upon request.

THREADED CHECK VALVES			
CODE	DIAMETER		WEIGHT
	DN	INCH	
ELT P125	32	1 1/4"	1,32 kg
ELT P150	40	1 1/2"	1,92 kg
ELT P200	50	2"	2,86 kg
ELT P250	65	2 1/2"	4,34 kg

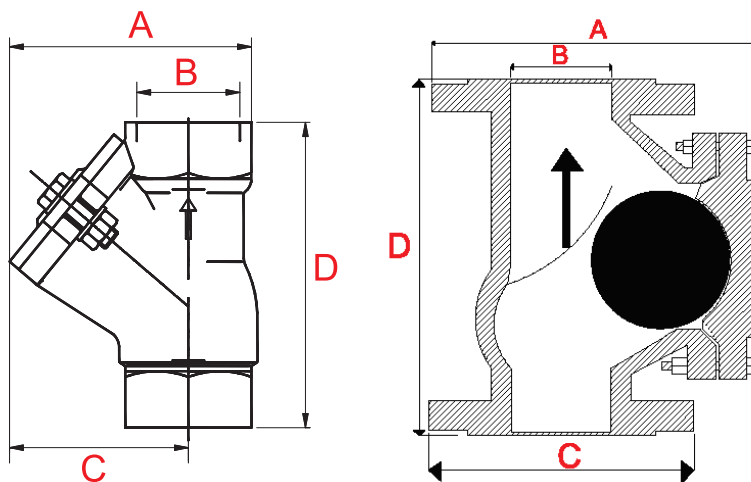
FLANGED CHECK VALVES			
CODE	DIAMETER		WEIGHT
	DN	INCH	
ELT PF200	50	2"	9,8 kg
ELT PF250	65	2 1/2"	14 kg
ELT PF300	80	3"	20 kg
ELT PF400	100	4"	30 kg
ELT PF500	125	5"	35 kg
ELT PF600	150	6"	50 kg
ELT PF800	200	8"	72 kg

FORMULIZATION	
ELT-P	...
Preferences	125 , 150 , 200 , 250

EXPLANATION	
125	THREADED CONNECTION 1 1/4"
150	THREADED CONNECTION 1 1/2"
200	THREADED CONNECTION 2"
250	THREADED CONNECTION 2 1/2"

FORMULIZATION	
ELT-PF	...
Preferences	200,250,300,400,500,600,800

EXPLANATION	
200	DN50
250	DN65
300	DN80
400	DN100
500	DN125
600	DN150
800	DN200



PRODUCT CODE	THREAD SIZE		DIMENSIONS (mm)			
	DN	INCH	A	B	C	D
	ELT-P125	32	1 1/4"	102	39	72
ELT-P150	40	1 1/2"	124	45	90	149
ELT-P200	50	2"	136	57	113	177
ELT-P250	65	2 1/2"	178	73	128	200

PRODUCT CODE	THREAD SIZE		DIMENSIONS (mm)			
	DN	INCH	A	B	C	D
	ELT-PF200	50	2"	194	50	166
ELT-PF250	65	2 1/2"	215	65	185	242
ELT-PF300	80	3"	253	80	200	260
ELT-PF400	100	4"	292	100	220	310
ELT-PF 500	125	5"	330	125	235	365
ELT-PF 600	150	6"	350	150	255	402
ELT-PF 800	200	8"	460	200	272	494





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