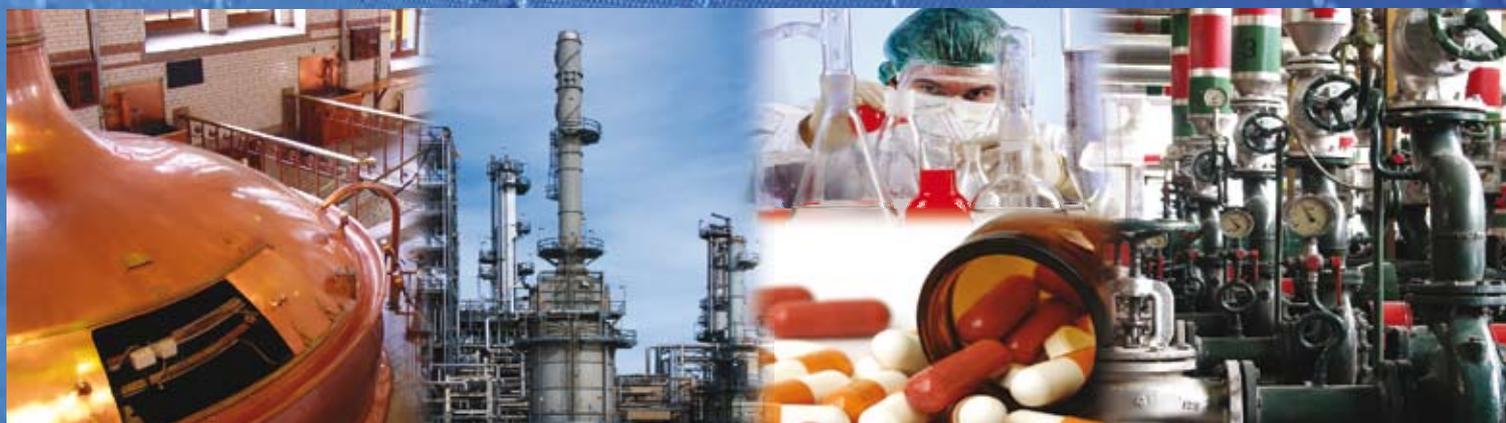




flow & process solutions





TOT-220-SSH-SPR

LIFESAVER® EMERGENCY SHOWER

DESCRIPTION

The TOT-220-SSH-SPR Lifesaver® Emergency Shower features an impeller action stainless steel shower head with a vertical overhead supply. The unit is activated with a 1" stay-open ball valve operated by a stainless steel pull rod. The unit also includes a universal emergency sign and it meets ANSI Z358.1.

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel
- ◆ **Flow Control:** Internal 20 gpm regulator
- ◆ **Valve:** 1" NPT female brass, chrome-plated, stay-open valve
- ◆ **Activator:** Stainless steel triangular pull rod
- ◆ **Inlet:** 1" NPT Female

OPTIONS

- ◆ Extended Pull Rod (XPR)
- ◆ Brass Shower Head (BH)
- ◆ Hand Held Spray (HS)
- ◆ Flow Switch (FLW)
- ◆ Stainless Steel Ball Valve (SSBV)
- ◆ Polished Chrome Finish (PC)



TO ORDER SPECIFY:

Part Number	Description
360-123000-000	TOT-220-SSH-SPR Lifesaver® Emergency Shower

TOT-220 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





TOT-227-SSH-SPR

LIFESAVER® EMERGENCY SHOWER

DESCRIPTION

The TOT-227-SSH-SPR Lifesaver® Emergency Shower features an impeller action stainless steel shower head with a horizontal supply. The unit is activated with a 1" stay-open ball valve operated by a stainless steel pull rod. The unit also includes a universal emergency sign and it meets ANSI Z358.1.

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel
- ◆ **Flow Control:** Internal 20 gpm regulator
- ◆ **Valve:** 1" NPT female brass, chrome-plated, stay-open valve
- ◆ **Activator:** Stainless steel triangular pull rod
- ◆ **Inlet:** 1" NPT Female
- ◆ **Pipe:** 1" IPS galvanized steel.

OPTIONS

- ◆ Stainless Steel Pull Rod (SPR)
- ◆ Extended Pull Rod (XPR)
- ◆ Brass Shower Head (BH)
- ◆ Hand Held Spray (HS)
- ◆ Flow Switch (FLW)
- ◆ Stainless Steel Ball Valve (SSBV)
- ◆ Polished Chrome Finish (PC)



TO ORDER SPECIFY:

Part Number	Description
360-133000-000	TOT-227-SSH-SPR Lifesaver® Emergency Shower

TOT-227 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





TOT-625-SSH-SPR

COMBINATION SHOWER & EYE/FACE WASH

DESCRIPTION

TOT-625 Safe-T-Zone® features the TOT-490 eye/face wash with dual spray outlets, flip-top dust covers and stainless steel bowl combined on a stainless steel stanchion with an impeller action deulge showerhead which is activated by a stainless steel pull rod.

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel.
- ◆ **Flow Control:** Internal 20 gpm regulator.
- ◆ **Valve:** 1" NPT female stainless steel. Full flow stay-open ball valve.
- ◆ **Freeze/Scald valves standard**
- ◆ **Activator:** Stainless steel triangular pull rod.
- ◆ **Stanchion:** 1-1/2" stainless steel, 18 gauge tubing.
- ◆ **Inlet & Waste:** 1-1/4" NPT male.
- ◆ **Performance:** 20 gpm @ 30 psi.
- ◆ **Finish:** Stainless steel.

Eye/Face Wash: TOT-490

- ◆ **Bowl:** 300 series stainless steel.
- ◆ **Spray Heads:** (2) yellow ABS plastic spray outlets with flip-top dust caps.
- ◆ **Valve:** 1/2" NPT female stainless steel full flow stay open ball valve.
- ◆ **Activator:** Stainless steel push handle.
- ◆ **Performance:** 3.8 gpm @ 30 psi.
- ◆ **Compliance:** ANSI Z358.1.



OPTIONS

- ◆ Flow Switch (FLW)
- ◆ Hand/Foot Operation (HFO)
- ◆ Hand Held Spray (HS)
- ◆ Polished stainless steel finish
- ◆ Top Supply (TS)

TO ORDER SPECIFY:

Part Number	Description
360-003300-000	TOT-625-SSH-SPR Combination Shower & Eye/Face Wash

TOT-625 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





TOT-690-SSH-SPR

COMBINATION SHOWER & EYE/FACE WASH

DESCRIPTION

TOT-690 Safe-T-Zone features the TOT-490 eye/face wash with dual spray outlets, flip top dust covers and stainless steel bowl combined on a painted galvanized steel stanchion with an impellar action deluge showerhead. The unit is activated by a stainless steel pull rod. It also comes with a universal emergency sign and meets ANSI Z358.1.

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel.
- ◆ **Flow Control:** Internal 20 gpm regulator.
- ◆ **Valve:** 1" NPT female brass, chrome-plated. Full flow stay-open ball valve.
- ◆ **Activator:** Stainless steel triangular pull rod.
- ◆ **Stanchion:** 1-1/4" IPS steel piping with brass fittings.
- ◆ **Inlet & Waste:** 1-1/4" NPT female.
- ◆ **Finish:** Safety Green Paint.

Eye/Face Wash: TOT-490

- ◆ **Bowl:** 300 series stainless steel.
- ◆ **Spray Heads:** (2) yellow ABS plastic spray outlets, sprayface and dust cover.
- ◆ **Valve:** 1/2" NPT female brass, chrome plated.
- ◆ **Activator:** Stainless steel push handle.
- ◆ **Inlet:** 1/2" NPT female.



OPTIONS

- ◆ Hand Foot Operation (HFO)
- ◆ Flow Switch (FLW)
- ◆ Hand Held Spray (HS)
- ◆ Top Supply (TS)
- ◆ Stainless Steel Ball Valves (SSBV)
- ◆ Chrome Plated Brass Shower Head (BH)

TO ORDER SPECIFY:

Part Number	Description
360-003100-000	TOT-690-SSH-SPR Combination Shower & Eye/Face Wash

TOT-690 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





TOT-693-SSH-SPR

COMBINATION SHOWER & EYEWASH

DESCRIPTION

The TOT-693 Safe-T-Zone® features the TOT-582 eyewash with dual aerated spray outlets, flip top dust covers and stainless steel bowl combined on a painted galvanized steel stanchion with an impellar action deluge showerhead. The unit is activated with a stainless steel pull rod. Provided with the unit is a universal emergency sign to meet ANSI standard Z358.1

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel
- ◆ **Flow Control:** Internal 20 gpm regulator
- ◆ **Valve:** 1" NPT female brass, chrome-plated. Full flow stay-open ball valve
- ◆ **Activator:** Stainless steel triangular pull rod
- ◆ **Stanchion:** 1-1/4" IPS steel piping with brass fittings
- ◆ **Inlet & Waste:** 1-1/4" NPT Female
- ◆ **Finish:** Safety Green Paint

EYEWASH: TOT-582

- ◆ **Bowl:** 300 Series Stainless steel
- ◆ **Spray Heads:** (2) Aerated yellow ABS plastic spray outlet, sprayface and dust cover.
- ◆ **Valve:** 1/2" NPT Female brass, chrome plated
- ◆ **Activator:** Stainless steel push handle
- ◆ **Inlet:** 1/2" NPT female



OPTIONS

- ◆ Hand Foot Operation (HFO)
- ◆ Flow Switch (FLW)
- ◆ Hand Held Spray (HS)
- ◆ Top Supply (TS)
- ◆ Stainless Steel Ball Valve (SSBV)
- ◆ Chrome Plated Brass Shower Head (BH)

TO ORDER SPECIFY:

Part Number	Description
360-003200-000	TOT-693-SSH-SPR Combination Shower & Eyewash

TOT-693 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





TOT-7000-SSH-SPR

COMBINATION SHOWER & EYE/FACE WASH

DESCRIPTION

TOT-7000 freeze protected combination shower and eye/face wash units are wrapped with heat trace cable and insulation and jacketed with an easy access ABS shell to protect them to -50°F. Eye/Face wash features dual aerated spray outlets with automatic flow controls and flip top dust covers. The impellar action shower is activated by a stainless pull rod. An integral freeze valve protects the unit from freezing in case of power outage. The unit also includes a universal emergency sign and it meets ANSI Z358.1 as well as being FM certified.

DESIGN SPECIFICATIONS

- ◆ **Shower Head:** 8" Dia. Stainless Steel
- ◆ **Flow Control:** Internal 20 gpm regulator
- ◆ **Valve:** 1" NPT female brass, chrome-plated. Full flow stay-open ball valve
- ◆ **Freeze/Scald valves standard**
- ◆ **Activator:** Stainless steel triangular pull rod
- ◆ **Internal Stanchion:** 1-1/4" IPS galvanized steel pipe
- ◆ **Inlet:** 1-1/4" NPT male, bottom supply
- ◆ **Finish:** Tinted Dura-Jade green ABS plastic.

OPTIONS

- ◆ Flow Switch (FLW)
- ◆ Hand Held Spray (HS)
- ◆ Top Supply (TS)

EYE/FACE WASH

- ◆ **Spray Heads:** (2) yellow ABS plastic spray outlets with automatic flow control and flip top dust caps.
- ◆ **Valve:** 1/2" NPTF brass, 3-way chrome plated ball valve.
- ◆ **Activator:** Stainless steel push handle.

ELECTRIC:

- ◆ **Heating Tape:** Self limiting parallel resistance cable with braided metal shield.
- ◆ **Thermostat:** Preset, hermetically sealed single pole contact switch. Temperature range of 60° to 70°F.
- ◆ **Insulation:** Closed cell foam rubber.
- ◆ **Pilot Light:** .025 watt red light with puch test button. Lights when thermostat closes and heating tape is activated.
- ◆ **Junction Box:** NEMA 4X water tight, dust tight and corrosion resistant for indoor or outdoor locations.
- ◆ **Power Supply:** 120 vac, 60 cycle, single phase.
- ◆ **Electrical Classification:** Class 1 Division 2 GRP. B, C, D.
- ◆ **Ground Fault Protection:** Installation will require minimum 30 mA GFPD.

TO ORDER SPECIFY:

Part Number	Description
360-003101-000	TOT-7000-SSH-SPR Combination Shower & Eye/Face Wash
360-003121-000	TOT-7000-C1D2 Combination Shower & Eye/Face Wash (includes pilot light)

TOT-7000 (12/09/10)

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice





THERM-OMEGA-TECH

ISO 9001 CERTIFIED

THERM-O-MIX STATION®/WWM

HIGH CAPACITY INSTANT TEPID WATER

THE NEED

An instantaneous and reliable source of instant tepid water for a safety shower/eyewash system using existing hot and cold water supply.

THE PROBLEM

Conventional mixing valves are unsuitable as the means to provide tepid water at safety shower/eyewash stations. These valves by nature have the property of shutting off entirely if either the hot or cold water supply is interrupted. This is dangerous and unacceptable for safety shower/eyewash systems where cold water must be available under all circumstances. To meet today's OSHA and ANSI recommendations you must have a system which can respond safely to both hot water and cold water supply failures.

THE SOLUTION

The **Therm-O-Mix Station®/WWM**. Its WM-1 mixing valve acting in concert with it's unique PWM-1 pressure sensing controller assure that cold water will flow to the shower and eyewash even if no hot water is available (as long as the cold water supply is not shut off elsewhere in the system). This is accomplished using completely mechanical, self operating controls. No electricity or air required.



TRIPLE REDUNDANT SAFETY CONTROLS

PWM-1 Pressure Sensing Controller:

Therm-Omega-Tech's unique diaphragm operated valve actuator senses the water pressures on both the hot and cold water inlet connections. If hot water pressure is not present at the mixing valve inlet, this actuator will override the mixing valve and allow full flow of cold water. If no cold water pressure is available at the mixing valve inlet, both the mixing valve and the diaphragm actuator will close off the hot port to prevent dangerously hot water from flowing to the shower/eyewash system.

V-4 Final Safety Control:

This control element senses the final water temperature and will position the PWM-1 pressure sensing controller to close off the hot water port of the mixing valve if the final water temperature is above 90°F.

WM-1 Mixing Valve:

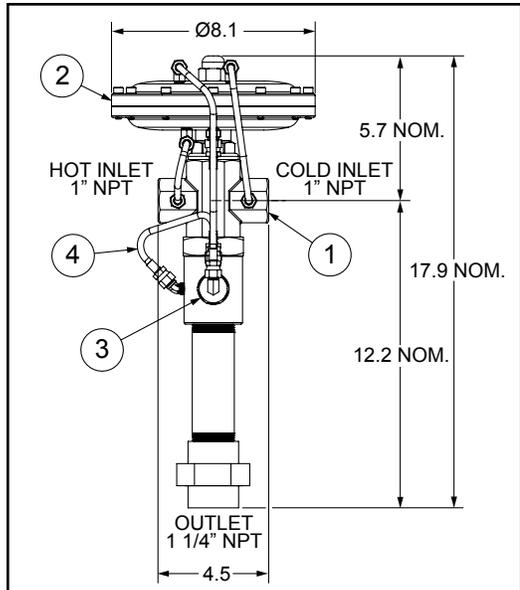
The primary temperature control device is Therm-Omega-Tech's three-way mixing valve. This valve is designed around our exclusive Thermoloid® sensor/actuator that automatically and accurately proportions the water flow in response to outlet water temperature. This mixing valve simultaneously modulates both the hot and cold water inlet ports to provide 85°F water to the shower/eyewash system. The Thermoloid® sensor/actuator is the most advanced and reliable thermal actuator of its type available today.

THERM-O-MIX STATION®/WWM

HIGH CAPACITY INSTANT TEPID WATER SUPPLY



PARTS AND MATERIALS



ITEM	DESCRIPTION	MATERIAL
1	WATER MIXING VALVE (V1)	Bronze Casting
2	PRESS. SENS. CONTROLLER (PWM-1)	Bronze Casting
3	FINAL SAFETY CONTROL (V4)	Brass
4	FLEXIBLE TUBING	SS Braided PTFE

OPERATION

After water flow is activated at the shower or eyewash, the outlet water temperature will reach 85°F when hot water arrives at the mixing valve. The mixing valve then blends the hot and cold water to produce an output of 85°F water. Therm-Omega-Tech, Inc. also manufactures a **Therm-O-Mix Station**® for use where only plant steam and cold water are available. Also available are auxiliary freeze protection and scald protection bleeder valves for use where freezing ambient temperatures or overheated lines (due to tracing or high solar heat gain) may be encountered.

ADVANTAGES

- ◆ Uses existing plant hot and cold water supplies
- ◆ Conforms to OSHA and ANSI recommendations
- ◆ All components are in-line serviceable
- ◆ Provides 3 to 30 GPM of 85°F water with inlet pressure of 30 psig
- ◆ Optional durable, all weather version in high visibility LDPE enclosure available
- ◆ Compact, lightweight design easily supported by piping connections (under 15 lbs/6 kg)
- ◆ Easy to retrofit on existing shower or combination shower/eyewash systems
- ◆ Maintains constant 85°F (29°C) output regardless of inlet pressure and temperature variations
- ◆ All self-operating controllers - no power required

TO ORDER SPECIFY:

Part Number	Description
387-201000-000	Therm-O-Mix®/WWM-85°F Station
387-202000-000	Therm-O-Mix®/WWM-85°F Station with NEMA 4 Enclosure

NOTES:

1. Where unit is to be used as a Safety Shower or Eyewash supply, the final outlet temperature should be specified by the Facilities Medical Supervisor or other authorized personnel.
2. A #20 mesh strainer is recommended for use with all port sizes.

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice



THERM-OMEGA-TECH, INC.





Therm-Omega-Tech

ISO 9001 CERTIFIED

Therm-O-Mix Station®

ALL WEATHER INSTANT TEPID WATER SUPPLY

**FREEZE PROBLEMS?
CALL THERM-OMEGA-TECH
TOLL-FREE 1-877-379-8258**

DESIGN FEATURES

- ◆ Uses existing plant steam and water supply
- ◆ Provides 3 to 25 GPM of 85°F
- ◆ Easy to install on any existing shower or eyewash/shower combination
- ◆ Compact, lightweight design easily supported by pipe connections or factory mounting kit
- ◆ Plant steam and water never mix... uses compact heat exchanger
- ◆ Maintains constant 85°F output regardless of inlet water temperature (between 40°F and 85°F)
- ◆ Preheated to provide instantaneous 85°F water
- ◆ Freeze and solar overtemperature protection and bleeder valves included
- ◆ No insulated tanks or expensive recirculation systems required
- ◆ Operates on typical plant steam pressure (45-60 PSIG recommended)
- ◆ Self-purging... no need for elaborate drainage system
- ◆ All components are in-line field serviceable
- ◆ Durable NEMA-4 enclosure can be readily removed for servicing
- ◆ Union connections allow for quick and easy installation
- ◆ Conforms to OSHA and ANSI recommendations
- ◆ Steam trap on steam inlet included



OPERATION

When the shower or eyewash is activated, the pressure drop on a diaphragm opens the steam control valve (V-3). Water and steam flow are established instantly heating the water and condensing the steam. A mixing valve (V-1) then blends the heated water with cold water to produce an output of 85°F water. Additional valves keep the system preheated, freeze protected and scald protected. Steam valve remains closed should water supply be interrupted.

REDUNDANT CONTROL

- Level 1: (V-1) This valve mixes heated and cold water and compensates for the pressure drop through the heat exchanger and associated piping.
- Level 2: (V-2) This valve senses the temperature of the hot water outlet from the heat exchanger and modulates inlet steam flow to maintain hot water outlet design temperature.
- Level 3: (V-3) When water flow is activated at shower or eyewash, the pressure sensing diaphragm of V-3 opens the steam valve to begin water heating.
- Level 4: (V-4) Heat sensor valve V-4 opens and equalizes pressure on the high and low pressure side of the V-3 diaphragm control valve preventing steam flow if outlet water is above design temperature.

THERM-O-MIX STATION®

ALL WEATHER INSTANT TEPID WATER SUPPLY



PARTS AND MATERIALS

<p>THERM-O-MIX® Tepid Water Supply</p> <p>HAT/FP Freeze Protection Valve</p> <p>HAT/SP Overtemperature Protection Valve</p>		ITEM	DESCRIPTION
		1	WATER MIXING VALVE (V1)
	2	HOT WATER TEMP. CONTROL (V2)	
	3	STEAM CONTROL (V3)	
	4	TEPID WATER (85°F) CONTROL (V4)	
	5	HEAT EXCHANGER (STAINLESS STEEL)	
	6	PREHEATING VALVE (BEHIND V1)	
	7	ENCLOSURE (NEMA-4)	
	8	BRAIDED HOSE (STAINLESS STEEL)	
	Note #2	FREEZE PROTECTION VALVE	
		SCALD PROTECTION VALVE	

SPECIFICATIONS

Type	Height		Width		Depth		Weight		Steam Inlet (Note 1)	Condensate Outlet	Cold Water Inlet (note 1)	Tepid Water Outlet	Capacity (note 1)
	in	cm	in	cm	in	cm	Lb	Kg					
BPHE	26.0	66.0	16.7	42.4	14.5	36.8	90	41	1" NPT Union	1" NPT Union	1-1/4" NPT Union	1-1/4" NPT Union	3-25 GPM
DWHE	34.5	87.6	13.5	34.3	21.0	53.3	200	91					

TO ORDER SPECIFY:

Part Number	Description
387-112000-000	Therm-O-Mix Station® (BPHE)
387-112100-000	Therm-O-Mix Station® (BPHE) (S/S unions and nipples)
387-120000-000	Therm-O-Mix Station® (DWHE)

NOTES:

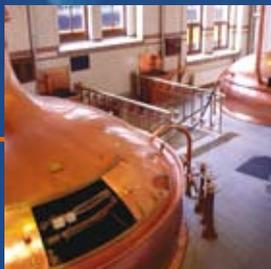
1. Recommended regulated supply pressure for both steam and water – 45-60 PSIG.
2. One each included with station. See HAT/FP and HAT/SP product fact sheets for operation.
3. BPHE model shown. Special design Therm-O-Mix stations also available – consult factory.
4. Where unit is to be used as a Safety Shower or Eyewash supply, the final outlet temperature should be specified by the Facilities Medical Supervisor or other authorized personnel.

Therm-Omega-Tech, Inc. reserves the right to change the design and specifications without notice



THERM-OMEGA-TECH, INC.





Potravinářský průmysl
Farmaceutický průmysl
Biotechnologie
Petrochemie
Chemický průmysl
Energetika
Úprava vody
Papírenství a zpracování celulózy
Plynárenský průmysl
Keramický průmysl
Zpracovatelský průmysl



Firma s tradicí od r. 1990 se při svém vzniku zaměřila na dodávky základních komponent, přístrojové a měřicí techniky a dodávky technologií pro farmaceutický a potravinářský průmysl. Cílem bylo zajistit kompletní dodavatelsko - inženýrské služby, včetně servisu. V roce 1998, který byl pro firmu velmi významným mezníkem, proběhla transformace společnosti do nynější formy. V dalších letech činnosti společnosti dochází k rozšíření portfolia a je navazována spolupráce s partnery v oblasti armatur, komponent, ventilů, procesní měřicí techniky a čerpadel.

Oblastí působnosti je potravinářský, farmaceutický průmysl, biotechnologie, chemický průmysl, petrochemie, úprava vody, papírenství a celulóza, energetika, keramický průmysl a zpracovatelský průmysl.

Firma REGOM INSTRUMENTS je díky širokému dodavatelskému portfoliu a bohatým zkušenostem schopna zajistit dodávky armatur, komponent, čerpadel, přístrojů a zařízení.

Cílem společnosti REGOM INSTRUMENTS je poskytování kvalitních služeb a spolehlivých dodávek pro co nejširší okruh zákazníků.



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