

PRODUCT OVERVIEW

Pressure & Temperature

- Pressure Transmitters
- Pressure Switches
- Thermostats



Transmitters & Sensors – High Precision Products

Trafag Pressure Transmitters are used for the sensing of pressure and the transmission of pressure proportional electrical signals.

Options

- various process and electrical connections
- absolute/relative measurement
- analogue/digital outputs
- CE, EX, Railway or Marine approvals

Sensor technologies

- thin film on steel
- thick film on ceramic

Customized products

- please contact us

Pressure Switches – for Multiple Applications

Trafag Pressure Switches are used to control pressures by means of an on/off electrical switch.

Options

- with/without display of switch point
- various switching capabilities
- CE, EX, Railway or Marine approvals

Sensing systems

- Metal bellows
- Membrane
- Piston

Trafag Thermostats – Experience of Many Years

Mechanical Trafag thermostats are used in applications where temperatures are controlled by means of a simple electrical on/off switching signal.

Options

- various switching capabilities
- instruments for inside or outside applications
- optional capillary tube breaking safety device
- one- or two-stage circuit
- CE, EX, Railway or Marine approvals

Sensing system

- with liquid filled capillary tube

Transmitter & Sensoren – hochpräzise Produkte

Trafag Drucktransmitter werden für elektronische Druckmessungen und Auswertungen eingesetzt.

Ausführungsvarianten

- vielfältige Druck- und Steckeranschlüsse
- Absolut- oder Relativdruckmessung
- analoge oder digitale Ausgänge
- CE-, EX-, Bahn- od. Schiffszulassungen

Sensor-Technologien

- Dünnschicht auf Stahl
- Dickschicht auf Keramik

Kundenspezifische Produkte

- bitte kontaktieren Sie uns

Trafag-Pressostate – für vielseitige Anwendungen

Trafag-Pressostate kommen zum Einsatz, wenn Drücke mit einem elektrischen Ein-/ Aus-Schaltsignal geregelt oder überwacht werden sollen.

Ausführungsvarianten

- mit/ohne Schaltpunktanzeige
- verschiedene Schalteleistungen
- CE-, EX-, Bahn- od. Schiffszulassungen

Messfühler-Systeme

- Metallbalg
- Membrane
- Kolben

Trafag-Thermostate – langjährige Erfahrung

Trafag-Thermostate kommen zur Anwendung, wenn Temperaturen mit einem elektrischen Ein-/Aus-Schaltsignal geregelt oder überwacht werden sollen.

Ausführungsvarianten

- verschiedene Schalteleistungen
- Geräte für Innen- oder Aussenanwendungen
- optionale Kapillarrohrbruchüberwachung
- ein- oder zweistufig
- CE-, EX-, Bahn- od. Schiffszulassungen

Messfühler

- flüssigkeitsgefülltes Kapillarrohrsystem
-

■ Sensors and Controls for the Monitoring of Pressure and Temperature

The measurement devices are employed everywhere where overall requirements are particularly stringent, as for example relative to shock, vibration, EMC, long-term stability, serviceable lifespan (MTBF) and special approvals (shipbuilding, railways, EX, etc.).

■ Sensoren und Steuergeräte für die Überwachung von Druck und Temperatur

Die Messgeräte finden überall dort ihren Einsatz, wo grosse Anforderungen gestellt werden, wie beispielsweise bezüglich: Schock, Vibration, EMV, Langzeitstabilität, Lebensdauer (MTBF) und spezielle Zulassungen (Schiffbau, Eisenbahn, EX, usw.).



■ Standard or Customized?

Trafag puts great emphasis on solutions to best meet customers' requirements. Our experience of many years guarantees a successful project realization.

Standard products

Ideally suited for a variety of applications and requirements.

Adapted variants

Standard products for special requirements. Standard products that can easily be adapted to special requirements.

Customized products

Trafag develops and manufactures special customized products according to your specifications to meet your requirements.

■ Standardisiert oder kundenspezifisch?

Trafag legt grossen Wert auf kundenoptimierte Lösungen. Unsere langjährige Erfahrung gewährleistet Ihnen ideale Voraussetzungen für eine erfolgreiche Projektumsetzung.

Standardisierte Varianten

Ideal und unkompliziert für vielfältige Anwendungen und zahlreiche Anforderungen.

Adaptierte Varianten

Für standardisierte Anwendungen mit Sonderwünschen. Zusatzoptionen können auf einfachste Weise beigefügt werden.

Kundenspezifische Varianten

Wir entwickeln und produzieren auch speziell auf Ihre Bedürfnisse zugeschnittene Lösungen.

Electronic Pressure Transmitters

Standard type	NAT...A NAT...V	NAH...A NAE...V	CMP...M	EPN...A EPI...A	EPNCR	NPN...A4 NPN...AF4	ECE...A ECT...A ECT...V ECTAA...A	ECOS...VC ECON...A	ECTR...A ECERV...A	NSL...A	NAP...A EXNA...A	Submersible NAL...A EXNAL...A	Submersible ECL...A	DCS...AR	ND...	Transducer
Data sheet available: www.trafag.com/72xxx	H72250	H72300 H72301 ^{NAE}	H72614	H72312 ^{EPI} H72314 ^{EPI}	H72312	H72313	H72324	H72212 H72239 ^{ECON}	H72323	H72302	H72230 H72227 ^{EX}	H72228 H72231 ^{EX}	H72328	H72605	H72218	H72315
Sensor technology	Thin film on steel	Thin film on steel	Thin film on steel	Thin film on steel	Thin film on steel	Thin film on steel	Thick film on ceramic	Thick film on ceramic	Thick film on ceramic	Thin film on steel	Piezoresistive	Piezoresistive	Thick film on ceramic	Thin film on steel	Thin film on steel	Thin film on steel
Material sensor	DIN 1.4542 (AISI 630)	DIN 1.4542 (AISI 630)	DIN 1.4542 (AISI 630)	DIN 1.4548 (AISI 630)	DIN 1.4548 (AISI 630)	DIN 1.4548 (AISI 630)	Ceramic (Al ₂ O ₃) O-Ring: FKM (CR, EPDM)	Ceramic (Al ₂ O ₃) O-Ring: FKM (CR, EPDM)	Ceramic (Al ₂ O ₃) O-Ring: FKM (CR, EPDM)	DIN 1.4542 (AISI 630)	DIN 1.4435 (AISI 316L)	DIN 1.4435 (AISI 316L)	Ceramic (Al ₂ O ₃) O-Ring: FKM (CR, EPDM)	DIN 1.4542/1.4435 (AISI 630/316L)	DIN 1.4542 (AISI 630)	DIN 1.4542 (AISI 630)
Measuring range [bar] () = Option: absolute or relative pressure measurement	min. 0 ... 2.5 max. 0 ... 600 relative, (absolute)	min. 0 ... 2.5 max. 0 ... 600 relative, (absolute)	min. 0 ... 4 max. 0 ... 600 relative	min. 0 ... 2.5 max. 0 ... 600 relative	min. 0 ... 600 max. 0 ... 2500 relative	min. 0 ... 2.5 max. 0 ... 400 relative	min. 0 ... 1 ECE: max. 0 ... 40 ECT: max. 0 ... 250 relative, (absolute)	min. 0 ... 1 max. 0 ... 250 relative, (absolute)	min. -1 ... 9 max. 0 ... 40 relative, (absolute)	min. 0 ... 0.2 max. 0 ... 2.5 relative, (absolute)	min. 0 ... 0.1 max. 0 ... 1000 relative, (absolute)	min. 0 ... 0.1 max. 0 ... 25 relative	min. 0 ... 0.1 max. 0 ... 25 relative	min. 0 ... 2.5 max. 0 ... 600 relative	min. -1 ... 1.5 max. 0 ... 16 relative	min. 0 ... 1 max. 0 ... 600 relative, (absolute)
Output () = Options, see data sheet	4...20 mA, 0...10 VDC (0...5, 1...6 VDC)	4...20 mA (0...10, 0...5, 1...6, 0.5...4.5 VDC)	Bus protocol CANopen	4...20 mA 0.5 ... 4.5 VDC	4...20 mA 0.5 ... 4.5 VDC	4...20 mA	4...20 mA 0...10 VDC, (0...5, 1...6, 0.5...4.5 VDC)	4...20 mA 0...10 VDC	4...20 mA 0...10 VDC, (0...5, 1...6, 0.5...4.5 VDC)	4...20 mA (0...10, 0...5, 0.5...4.5 VDC)	4...20 mA (0...10 VDC)	4...20 mA (0...10 VDC)	4...20 mA	4...20 mA Relays (0...10 VDC)	4...20 mA	1.7...2 mV/V
Supply voltage [VDC] () = Options, see data sheet	24	24	12/24	24	24	24	24	24 VAC ^(ECON...VC) 24 VDC	24	24	24	24	24	24	24	10 (max. 15)
Accuracy typ. (at 25°C) - Electronic Pressure Transmitters: NLH (BSL) % FS - Mechanical Pressure Switches: Switching differential [bar]	± 0.2	± 0.1 (Option: ± 0.2)	± 0.2 (Option: ± 0.1)	± 0.2 (Option: ± 0.1)	± 0.2 (Option: ± 0.1)	± 0.2 (Option: ± 0.1)	± 0.2	≤ 160 bar: ± 0.3 ≥ 160 bar: ± 0.5	± 0.2	± 0.1	± 0.5 (Option: ± 0.1 / ± 0.25)	± 0.5 (Option: ± 0.1 / ± 0.25)	± 0.3	± 0.2	± 0.5	± 0.1... ± 0.5
Operating temperature [°C]	-25 ... 85	-40 ... 125	-40 ... 85 (-40 ... 125)	-40 ... 125	-40 ... 125	-40 ... 100	-25 ... 85	-25 ... 85	-25 ... 85	-40 ... 125	0 ... 70 (-25...85)	-5 ... 50	-25 ... 80	-25 ... 80	-25 ... 85	-25 ... 125
Media temperature [°C]	-25 ... 125	-40 ... 125	-50 ... 125 (-50 ... 135)	-40 ... 125	-40 ... 125	-40 ... 100	-25 ... 85 1) 25 ... 125	≤ 60 bar: -25...85 ≥ 60 bar: -10...85	-25 ... 85	-40 ... 125	0 ... 80 (-25...100/150)	-5 ... 50	-25 ... 80	-25 ... 125	-25 ... 125	-25 ... 125
IP Protection () = Options, see data sheet	IP65 (IP67)	IP67 (IP65)	IP67	IP65 (IP69K)	IP69K (IP65)	IP65	IP65 (IP67)	IP65 (IP67)	IP65 (IP67)	IP67 (IP65)	IP65 (IP67)	IP68	IP68	IP65	IP65	IP65
Electrical connection () = Options, see data sheet	Industrial Standard (M12x1)	M12x1 (IndustrialStandard)	M12x1	EN175301-803-A (DIN 72585, cable)	EN175301-803-A DIN 72585, cable	EN175301-803-A	EN175301-803-A (M12x1, cable)	EN175301-803-A (M12x1, cable)	EN175301-803-A (M12x1, cable)	M12x1 (Industrial Standard)	EN175301-803-A	Cable	Cable	M12x1	Terminal screw	M12x1
Pressure connection () = Options, see data sheet	G1/4" male (1/4" NPT male, 7/16"-20 UNF)	G1/4" male (1/4" NPT male, 7/16"-20 UNF)	G1/4" male (1/4" NPT male)	G1/4" male (R1/4"m, M14x1.5 m, M18x1.5 male)	M14x1.5 male M18x1.5 male	G1/4" female flange connection (G1/8" f or M10 f)	G1/4" male (G1/4" female, 1/4" NPT male)	G1/4" male (G1/4" female, 1/4" NPT male)	7/16"-20 UNF male 7/16"-20 UNF female (1/4" NPT male)	G1/4" male (1/4" NPT male)	G1/4" male (G1/4" female, G1/2" male)	open closed	M10x1 female M22x1 male	G1/4" male (G1/4" f, G1/2" m) flange connection	2x G1/4" female	G1/4" male
Material pressure connection	DIN 1.4301 (AISI 304)	DIN 1.4301 (AISI 304)	DIN 1.4301 (AISI 304)	DIN 1.4542/1.4301 (AISI 630/304)	DIN 1.4542/1.4301 (AISI 630/304)	DIN 1.4542/1.4301 (AISI 630/304)	CuZn39Pb3 ^{ECE} 1.4305 (AISI 303) ^{ECT}	DIN 1.4435 (AISI 316L)	CuZn39Pb3 ^{ECERV} 1.4305 (AISI 303) ^{ECR}	DIN 1.4301 (AISI 304)	DIN 1.4435 (AISI 316L)	DIN 1.4435 (AISI 316L)	1.4404/1.4435 (AISI 316L)	DIN 1.4301/1.4306 (AISI 304/304L)	DIN 1.4542 (AISI 630)	DIN 1.4301 (AISI 304)

Applications

Shipbuilding / Schiffbau	○	● ^{NAE}	○	● ^{EPN}	●	●	○	● ^{ECON}	○	●	●	●	○	●	●	○
Engine / Motorenbau	○	● ^{NAE}	●	● ^{EPN}	●	●	○	● ^{ECON}	○	●	○	○	○	○	●	○
Railway / Schienenfahrzeuge	○	○	●	○	○	●	○	○	○	○	○	○	○	○	○	○
Machine tools / Maschinenbau	●	●	●	●	○	●	●	●	○	●	●	○	○	●	○	●
Hydraulics / Hydraulik	●	●	●	●	●	●	●	●	○	○	●	○	○	●	○	●
HVAC / HLK	●	○	○	● ^{EPI}	○	○	○	●	●	○	●	○	○	○	○	●
Refrigeration / Kältetechnik	●	○	○	● ^{EPI}	○	○	○	●	●	○	○	○	○	○	○	●
Process Technology / Prozess-Technologie	●	●	●	● ^{EPI}	○	○	○	●	○	●	●	●	●	●	○	●
Water treatment / Wasseraufbereitung	●	●	○	● ^{EPI}	○	○	●	●	○	●	●	●	●	○	○	●
Automotive / Autoindustrie	○	○	○	○	○	○	○	●	○	○	○	○	○	○	○	○
Test benches / Prüfstände	○	●	●	○	○	○	○	○	○	●	○	○	○	○	○	●
Ex	○	○	○	○	○	○	○	○	○	○	●	●	○	○	○	○

Mechanical Pressure Switches										
Standard type	PST4...4 PST4...F4	PST...4 PST...F4 PST...S4 ^(stainless)	PSTK...4 PSTK...F4	PSTM...4 PSTM...F4	PSTD...	PK... EXPK... [Ⓢ]	PV... PVF...	P... PS... EXP... [Ⓢ]	PD... EXPD... [Ⓢ]	987...
Data sheet available: www.trafag.com/72xxx	H72362	H72202	H72202	H72202	H72273	H72259 H72270 [Ⓢ]	H72257	H72252 H72263 [Ⓢ]	H72253 H72256 [Ⓢ]	H72272
Sensor technology	Bellows	Bellows	Piston	Membrane	Bellows (Different. pressure)	Piston	Bellows	Bellows	Bellows (Different. pressure)	Bellows
Material sensor	Bronze CuSn6	Bronze CuSn6 DIN1.4404 (AISI316L)	DIN 1.4404 (AISI 316L) O-Ring: PTFE	FKM	Bronze CuSn6	DIN 1.4435 (AISI 316L) O-Ring: NBR	Bronze CuSn6	Bronze CuSn6 1.4435 (AISI 316L)	Bronze CuSn6	Bronze CuSn6 1.4301 (AISI 304)
Measuring range [bar] () = Option: absolute or relative pressure measurement	min. 0 ... 4 max. 2 ... 25	min. -0.6 ... 3.4 max. 4 ... 40	min. 1 ... 10 max. 40 ... 400	min. 1 ... 10 max. 10 ... 100	min. -1 ... 6 max. -1 ... 8	min. 1 ... 10 max. 60 ... 600	min. -0.9 ... 1.5 max. 4 ... 40	min. -0.9 ... 1.5 max. 4 ... 100	min. -0.6 ... 3.4 max. 1 ... 16	min. -0.3 ... 1.3 max. 1 ... 10
Output () = Options, see data sheet	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off
Supply voltage [VDC] () = Options, see data sheet	-	-	-	-	-	-	-	-	-	-
Accuracy typ. (at 25°C) - Electronic Pressure Transmitters: NLH (BSL) % FS - Mechanical Pressure Switches: Switching differential [bar]	min. 0.3 max. 1.5	min. 0.3 max. 1.6	min. 0.8 ... 2.4 max. 15 ... 50	min. 0.4 ... 1.7 max. 4 ... 16	min. 0.2 max. 0.3	min. 0.45 ... 0.9 max. 8 ... 32	min. 0.06 ... 0.2 max. 1 ... 4 (adjustable)	min. 0.1 max. 3.0	min. 0.16 max. 0.4	min. 0.1 max. 0.6
Operating temperature [°C]	-25 ... 85	-25 ... 85	-25 ... 85	0 ... 80	-25 ... 85	-20 ... 70 -50 ... 65 [Ⓢ]	-20 ... 70	-20 ... 70 -50 ... 65 [Ⓢ]	-20 ... 70 -30 ... 65 [Ⓢ]	-25 ... 70
Media temperature [°C]	-25 ... 125	-25 ... 120	-25 ... 120	0 ... 80	-25 ... 120	-30 ... 100	-40 ... 150	-40 ... 150	-40 ... 150	-25 ... 80
IP Protection () = Options, see data sheet	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP40
Electrical connection () = Options, see data sheet	EN175301-803-A	EN175301-803-A	EN175301-803-A	EN175301-803-A	EN175301-803-A	Terminal screw	Terminal screw	Terminal screw	Terminal screw	Terminal tag
Pressure connection () = Options, see data sheet	G1/4" female flange connection	G1/4" female flange connection (G1/8" f or M10 f)	G1/4" female flange connection (G1/8" f or M10 f)	G1/4" female flange connection (G1/8" f or M10 f)	2xG1/4" female	G1/4" female (G1/2" male)	G1/4" female (G1/2" male)	G1/4" female (G1/2" male)	G1/8" female (G1/4" f, G1/2" m)	G1/4" male
Material pressure connection	EN-AC-AISI 10 Mg (LM6) chemically nickel plated	Brass, CuZn39Pb3 DIN1.4404 (AISI316L)	DIN 1.4404 (AISI 316L)	Brass CuZn39Pb3	Brass CuZn39Pb3	DIN 1.4435 (AISI 316L)	Brass CuZn39Pb3	Brass CuZn39Pb3 (nickel plated [Ⓢ])	Brass CuZn39Pb3 (nickel plated [Ⓢ])	Brass CuZn39Pb3 1.4301 (AISI 304)

Applications										
Shipbuilding / Schiffbau	●	●	●	●	●	●	●	●	●	○
Engine / Motorenbau	●	●	●	●	●	●	●	●	●	○
Railway / Schienenfahrzeuge	●	●	●	●	○	●	●	●	●	○
Machine tools / Maschinenbau	●	●	●	●	●	●	●	●	●	●
Hydraulics / Hydraulik	○	●	●	●	●	●	●	●	●	○
HVAC / HLK	○	○	○	○	○	○	○	○	○	○
Refrigeration / Kältetechnik	○	○	○	○	○	○	○	○	○	○
Process Technology / Prozess-Technologie	○	○	○	○	○	○	○	○	○	○
Water treatment / Wasseraufbereitung	○	○	○	○	○	○	○	○	○	○
Automotive / Autoindustrie	○	○	○	○	○	○	○	○	○	○
Test benches / Prüfstände	○	○	○	○	○	○	○	○	○	○
Ex	○	○	○	○	○	●	○	●	●	○

Mechanical Thermostats									Electronic Thermostats
Standard type	ISP... ISPT...	ISN... ISNT...	IA... IAS... EXAS... [Ⓢ]	KTSB [Ⓢ]	A... AS... ASE...	M... MS... MST...	L...	F...	T...
Data sheet available: www.trafag.com/72xxx	H72113	H72111	H72116 H72128 [Ⓢ]	H72181	H72170	H72172 H72174 ^{MST}	H72122	H72123	H72102
Sensor technology	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	PT100 (with/without)
Material sensor (PT= Protection Tube) () = options, see data sheet	PT: Brass nickel plated	PT: Brass nickel plated (DIN 1.4435/ AISI 316L)	Cu Cu nickel plate ([Ⓢ])	1.4435 (AISI 316L)	Cu	Cu	Cu	Cu	DIN 1.4435 (AISI 316L)
Measuring range [°C]	min. 5 ... 95 max. 20 ... 150	min. 20 ... 110 max. 40 ... 300	min. -30 ... 30 max. 0 ... 60	min. 20 ... 230 max. 70 ... 350	min. -45 ... 15 max. 0 ... 60	min. -30 ... 40 max. 70 ... 350	min. -30 ... 40 max. 70 ... 350	-5 ... 15	min. -50 ... 50 max. 0 ... 550
Output	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	microswitch on/off	4 ... 20 mA
-	-	-	-	-	-	-	-	-	-
Accuracy typ. (at 25°C) - Mechanical Thermostats: Switching differential [°C] - Electronic Thermostats: Temperature [°C]	min. 4 max. 6	min. 4.5 max. 8	0.7 ... 6 (adjustable) 2.5 [Ⓢ]	0.5 % FS	min. 0.7 ... 6 max. 3 ... 10 (adjustable)	min. 0.7 ... 10 max. 4 ... 40 (adjustable)	min. 0.7 ... 10 max. 4 ... 40 (adjustable)	2	NLH (BSL through 0): ± 0.05% FS typ.
Operating Temperature [°C]	-30 ... 70	-30 ... 70	min. -30 ... 40 max. -30 ... 70	-50 ... 60	min. -45 ... 30 max. -30 ... 70	-30...70	-30...70	-30...70	-40 ... 85
Media Temperature [°C]	see «Measuring range»	see «Measuring range»	see «Measuring range»	see «Measuring range»	see «Measuring range»	see «Measuring range»	see «Measuring range»	max. 140	-
IP Protection	IP65	IP65	IP65	IP 66	IP54	IP54	IP00	IP42	IP65
Electrical connection	EN175301-803-A	Terminal screw	Terminal screw	Terminal screw	Terminal screw	Terminal screw	Terminal screw	Terminal screw	Spring terminal
Capillary tube length [m]	ISP: 3 ISPT: rigid sensor pocket	ISN: 3 ISNT: rigid sensor pocket	-	2	-	M, MS: 2 MST: rigid sensor pocket	2	6 or 3	-
Supply voltage [VDC]	-	-	-	-	-	-	-	-	24

Applications										
Schiffbau / Shipbuilding	●	●	○	○	○	○	○	○	○	●
Motorenbau / Engine	●	●	○	○	○	○	○	○	○	○
Schienenfahrzeuge / Railway	●	●	○	○	○	○	○	○	○	●
Maschinenbau / Machine tools	○	○	○	●	○	●	●	○	○	○
Hydraulik / Hydraulics	●	○	○	○	○	○	○	○	○	○
HLK / HVAC	●	○	●	●	●	●	○	●	●	●
Kältetechnik / Refrigeration	○	○	○	○	●	●	○	●	●	●
Prozess-Technologie / Process Technology	○	○	○	●	○	●	○	○	○	○
Wasseraufbereitung / Water treatment	○	○	○	○	○	● ^{MST}	○	○	○	○
Autoindustrie / Automotive	○	○	○	○	○	○	○	○	○	○
Prüfstände / Test benches	○	○	○	○	○	○	○	○	○	○
Ex	○	○	●	●	○	○	○	○	○	○

Swiss Based Quality – Worldwide Represented



■ Tochterfirmen Subsidiaries

Austria
Czech Republic
France
Germany
Great Britain
India
Italy
Japan

■ Trafag Joint Ventures

Poland

■ Vertretungen Representations

Australia
Belgium
Canada
China
Cyprus
Denmark
Finland
Greece
Iceland
Iran
Israel
Korea
Netherlands
New Zealand
Norway
Portugal
Russia
Singapore
South Africa
Spain
Sweden
Taiwan
Thailand
Turkey
United Arab Emirates
USA

■ Referenzen References

ABB
AIT
AKG
Alstom
Areva T&D
Atos
AVL
Benninghoven
Bharat Heavy Electrical
Blohm & Voss
Bombardier
Bosch Rexroth
BMW Rolls-Royce
Bühler
Caterpillar
Charmilles
Dalian Marine Diesel Ltd.
Detroit Diesel
Deutsche Bahn AG
Doosan Group
Dräger
Electrolux
Faiveley
Fincantieri
Flender
Gdansk Shipyard
Gdynia Shipyard
Goninan
Greenfield
G&W
Hermetic Pumpen
Roche
Hudong Shipyard
Hyundai Heavy Industries
IAV
Ingersoll Rand
Iveco
KOMA

MAN B&W
Melag
Mitsubishi
MTU
Noske-Kaeser
Oilon
Ormat Turbines
Parker
Philips
Petrochemia
Polarteknik PMC
Queensland Rail
Reintjes
Renk
Rolls-Royce
Schindler
Schneider Electric
Schottel
Sciteq-Hammel
Shanghai Shipyard
Siemens
SNCF
STX Heavy Industries
Szczecin Shipyard
Thermax Limited
Toshiba
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