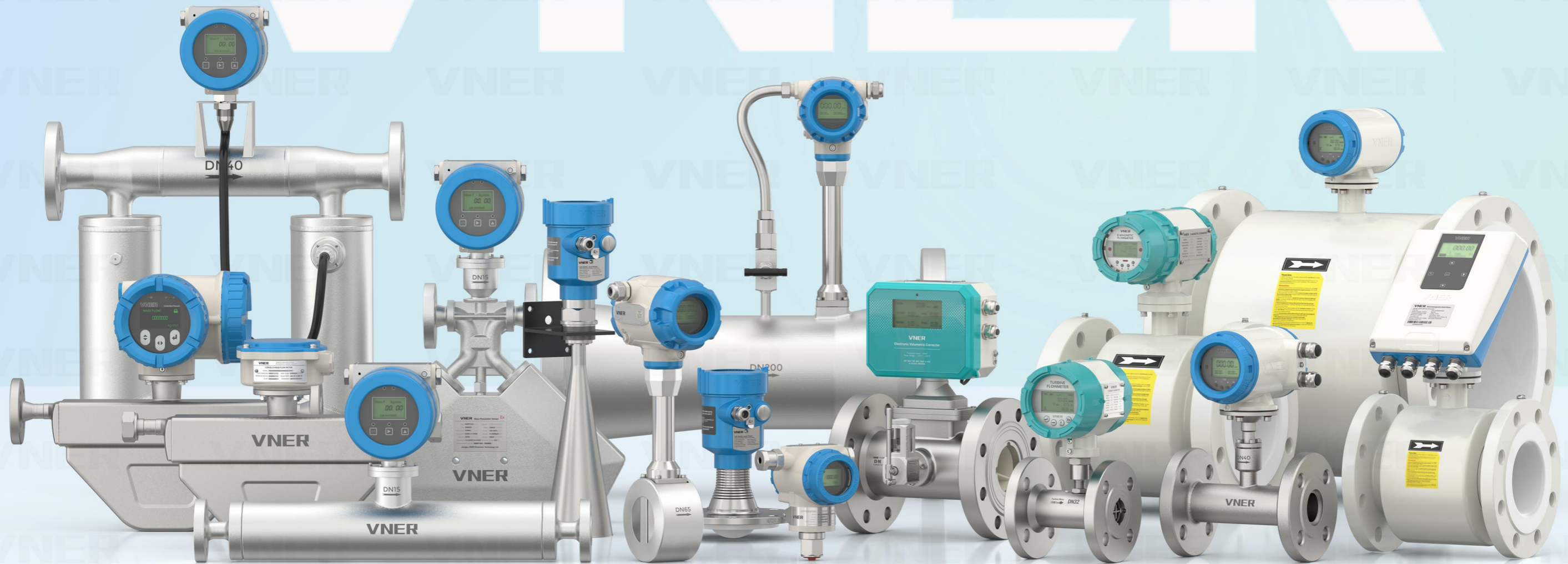


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VNER VOLUMETRIC FLOWMETERS TECHNICAL DATA

PRODUCT TYPE	VORTEX FLOWMETER M80T0-SERIES	VORTEX FLOWMETER M80T-SERIES	VORTEX FLOWMETER M80T-TP-SERIES	SWIRL FLOWMETER SA80T-SERIES	SWIRL FLOWMETER SA80T-TP-SERIES	GAS TURBINE FLOWMETER LWQ-SERIES	LIQUID TURBINE FLOWMETER LWGY-SERIES	ELECTROMAGNETIC FLOWMETER MWDC-LDG-SERIES
Product Picture								
Measuring Medium	Liquid , Gas , Steam	Liquid , Gas , Steam	Liquid , Gas , Steam	Liquid , Gas , Steam	Liquid , Gas , Steam	Gas	Liquid	Conductive Liquid $\geq 5 \mu\text{S/cm}$
Accuracy Grade	$\pm 1.0\%$, $\pm 1.5\%$	$\pm 1.0\%$, $\pm 1.5\%$	$\pm 1.0\%$, $\pm 1.5\%$	Liquid : $\pm 0.5\%$, Gas : $\pm 1.0\%$	Liquid : $\pm 0.5\%$, Gas : $\pm 1.0\%$	$\pm 1.0\%$, $\pm 1.5\%$	$\pm 0.2\%$, $\pm 0.5\%$, $\pm 1.0\%$	$\pm 0.2\%$, $\pm 0.5\%$
Velocity	Liquid: 0.3m/s...7m/s Gas: 3m/s...70m/s Steam: 4m/s...70m/s	Liquid: 0.3m/s...7m/s Gas: 3m/s...70m/s Steam: 4m/s...70m/s	Liquid: 0.3m/s...7m/s Gas: 3m/s...70m/s Steam: 4m/s...70m/s	Liquid: 0.2...6m/s Gas: 2...60m/s Steam: 3...60m/s	Liquid: 0.2...6m/s Gas: 2...60m/s Steam: 3...60m/s	1m/s...15m/s	0.5m/s...5m/s	0.1m/s...10m/s
Repeatability	$\leq 0.3\%$	$\leq 0.3\%$	$\leq 0.3\%$	$\leq 0.3\%$	$\leq 0.3\%$	0.05%...0.2%	0.05%...0.2%	$\leq 0.15\%$
Nominal Diameter (mm)	Standard: DN 15 - DN 600	Standard: DN 15 - DN 600	Standard: DN 15 - DN 600	DN 15- DN 400	DN 15- DN 400	DN 25 - DN 400	DN 4 - DN 200	DN 2.5 - DN 3000
ASME/ANSI Size (inches)	Standard: 1/2" - 24"	Standard: 1/2" - 24"	Standard: 1/2" - 24"	1/2" - 16"	1/2" - 16"	1/2" - 16"	1/8" - 8"	1/8" - 80"
Type of Connection	Wafer	Flange , Insertion	Flange , Insertion	Flange	Flange	Flange , Thread	Flange , Sanitary , Thread , Wafer	Flange , Sanitary , Insertion
Connection Standards	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS	DIN , ANSI/ASME , JIS
Body Material	SS 304 , SS 316L	SS 304 , SS 316L	SS 304 , SS 316L	CS , SS 304 , SS 316L	CS , SS 304 , SS 316L	CS , SS 304 , SS 316 , Cast Aluminum	SS 304 , SS 316	CS , SS 304 , SS 316
Wetted Material	SS 304 , SS 316L , HAS-C , Ta	SS 304 , SS 316L , HAS-C , Ta	SS 304 , SS 316L , HAS-C , Ta	SS 304 , SS 316L , HAS-C , Ti	SS 304 , SS 316L , HAS-C , Ti	Aluminum Alloy	2Cr13 , CD4MCu	Lining : CR , PU , PTFE , PFA Electrode : SS 316 , Ti , Ta , HAS-C , Pt-Ir
Process Temperature	Cryogenic : -180°C...+120°C Normal : -40°C...+250°C High Temp : -40°C...+350°C	Cryogenic : -180°C...+120°C Normal : -40°C...+250°C High Temp : -40°C...+350°C	Cryogenic : -180°C...+120°C Normal : -40°C...+250°C High Temp : -40°C...+350°C	Normal : -40°C...+160°C High Temp : -40°C...+ 350°C	Normal : -40°C...+160°C High Temp : -40°C...+ 350°C	Normal : -30°C...+80°C	Normal : -20°C...+150°C	Normal : -20°C...+180°C
Process Pressure	PN 10...PN 40 ANSI Class 150...ANSI Class 600 Maximum $\leq 15\text{MPa}$	PN 10...PN 40 ANSI Class 150...ANSI Class 600 Maximum $\leq 15\text{MPa}$	PN 10...PN 40 ANSI Class 150...ANSI Class 600 Maximum $\leq 15\text{MPa}$	PN 10...PN 40 ANSI Class 150...ANSI Class 600 Maximum $\leq 30\text{MPa}$	PN 10...PN 40 ANSI Class 150...ANSI Class 600 Maximum $\leq 30\text{MPa}$	PN 16 , PN 25 ANSI Class 150 , ANSI Class 300 JIS 10K , JIS 20 K	PN 16 , PN 25 ANSI Class 150 , ANSI Class 300 JIS 10K , JIS 20 K	PN 10...PN 40 ANSI Class 150 , ANSI Class 300 JIS 10K , JIS 20 K
Signal Output	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse
Communication Protocol	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485	Modbus-RS485 , HART	Modbus-RS485 , Profibus , HART , GPRS
Power Source	12V DC / 24V DC , 3.6V Battery	12V DC / 24V DC , 3.6V Battery	12V DC / 24V DC , 3.6V Battery	18...26V DC , 3.6V Battery	18...26V DC , 3.6V Battery	24V DC , 3.6V Battery	24V DC , 220V AC , 3.6V Battery	24V DC , 110... 240V AC , 3.6V Battery
Electrical Interface	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT
Explosion-proof	Exia IICT2-T6 Exd IIB T6 Gb EAC : Ex ia IIIC T80°C...T400°C EAC : Ex tb IIIC T80°C...T400°C	Exia IICT2-T6 Exd IIB T6 Gb EAC : Ex ia IIIC T80°C...T400°C EAC : Ex tb IIIC T80°C...T400°C	Exia IICT2-T6 Exd IIB T6 Gb EAC : Ex ia IIIC T80°C...T400°C EAC : Ex tb IIIC T80°C...T400°C	Exia IICT4-T6 Ga ; ExiaD 20 T135°C Exd IIC T6 Gb ; ExtD A21IP66 T80 °C	Exia IICT4-T6 Ga ; ExiaD 20 T135°C Exd IIC T6 Gb ; ExtD A21IP66 T80 °C	Exia IICT4 Ga Exd IIC T6 Gb	Exd IIC T6 Gb	Exd ib q IIC T6 Gb
Ingress Protection	IP65 , IP 68	IP65 , IP 68	IP65 , IP 68	IP65 , IP66 , IP68	IP65 , IP66 , IP68	IP65	IP65	IP65 , IP67 , IP68
Approvals	ISO , PCEC , CE , ATEX , SIL , EAC	ISO , PCEC , CE , ATEX , SIL , EAC	ISO , PCEC , CE , ATEX , SIL , EAC	ISO , PCEC , CE , ATEX , SIL	ISO , PCEC , CE , ATEX , SIL	ISO , PCEC , CE , SIL	ISO , PCEC , CE , SIL	ISO , PCEC , CE , ATEX , SIL

VNER MASS FLOWMETERS TECHNICAL DATA				VNER ENHANCED CNG & LNG CORIOLIS FLOWMETER		VNER THERMAL MASS	VNER ENHANCED ELECTROMAGNETIC FLOWMETERS	
PRODUCT TYPE	CORIOLIS MASS FLOWMETER KSMF-U SERIES	CORIOLIS MASS FLOWMETER KSMF-T SERIES	CORIOLIS MASS FLOWMETER KSMF-S SERIES	ENHANCED CORIOLIS STANDARD MODEL AC80 SERIES	ENHANCED CORIOLIS HIGH ACCURACY MODEL AC80G SERIES	THERMAL MASS FLOWMETER ST51/54 SERIES	ENHANCED ELECTROMAGNETIC FLOWMETER L801F SERIES	ELECTROMAGNETIC THERMAL ENERGY METER L804F SERIES
Product Picture								
Measuring Medium	Liquids , Liquified gases	Liquids , Liquified gases	Liquids , Liquified gases	Liquids , Gases , Slurries	CNG / LNG	Clean Gases	Conductive Liquid $\geq 1 \mu\text{S/cm}$	Heat-carrying Conductive Fluids
Accuracy Grade	$\pm 0.1\%$, $\pm 0.15\%$, $\pm 0.2\%$, $\pm 0.5\%$	$\pm 0.1\%$, $\pm 0.15\%$, $\pm 0.2\%$, $\pm 0.5\%$	$\pm 0.1\%$, $\pm 0.15\%$, $\pm 0.2\%$, $\pm 0.5\%$	$\pm 0.05\%$, $\pm 0.1\%$, $\pm 0.15\%$, $\pm 0.2\%$	$\pm 0.2\%$, $\pm 0.5\%$	$\pm 0.5\%$ F.S , $\pm 1.0\%$ R	$\pm 0.2\%$, $\pm 0.5\%$	Flow : $\pm 0.5\%$ Thermal : $\pm 2.0\%$
Measuring Range	Density: 0.3...3g/m ³ ($\pm 0.002\text{g/m}^3$)	Density: 0.3...3g/m ³ ($\pm 0.002\text{g/m}^3$)	Density: 0.3...3g/m ³ ($\pm 0.002\text{g/m}^3$)	Range: 0...495,000kg/h Density: 0.2...3g/m ³	CNG015: 0.5...6000kg/h LNG006: 0.6...55kg/h LNG025: 6...12000kg/h	Range ability: 10 : 1...100 : 1	0.1m/s...10m/s	0.1m/s...10m/s
Repeatability	0.05%...0.1%	0.05%...0.1%	0.05%...0.1%	$\pm 0.05\%$	$\pm 0.25\%$	$\leq 0.5\%$	$\leq 0.10\%$	$\leq 0.1\%$
Nominal Diameter (mm)	DN 20 - DN 300	DN 3 - DN 15	DN 8 - DN 150	DN 2 - DN 200	DN 6 / DN 15 / DN 25	Integral/Remote : DN 10 - DN 100 Insertion: DN 80 - DN 2000	Integral/Remote : DN 10 - DN 300 Insertion: DN 100 - DN 3000	Integral/Remote : DN 10 - DN 300 Insertion: DN 100 - DN 3000
ASME/ANSI Size (inches)	Standard : 3/4" - 12"	Standard : 1/8" - 1/2"	Standard : 1/4" - 3"	Standard : 1/2" - 10"	Standard : 1/2" , 1" , Optional	Integral/Remote : 3/8" - 4" Insertion : 3" - 80"	Integral/Remote : 3/8" - 12" Insertion : 4" - 88"	Integral/Remote : 3/8" - 12" Insertion : 4" - 88"
Type of Connection	Flange , Thread , Tri-clamp , Pipe fittings	Flange , Thread , Tri-clamp , Pipe fittings	Flange , Thread , Tri-clamp , Pipe fittings	Flange	Flange	Flange , Thread , Insertion	Flange , Insertion , Plug	Flange , Insertion
Connection Standards	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME	DIN , ANSI/ASME
Body Material	SS 304 , SS 316L	SS 304 , SS 316L	SS 304 , SS 316L	SS 304 , SS 316L , Optional	SS 304 , SS 316L , Optional	CS , SS 304 , SS 316L	CS , SS 304 , SS 316L	CS , SS 304 , SS 316L
Wetted Material	SS 316L , HAS-C , Ti	SS 316L , HAS-C , Ti	SS 316L , HAS-C , Ti	SS 316L , HAS-C , Optional	SS 316L , HAS-C , Optional	Sensor : SS 316L , HAS-C Lining : Teflon , Ceramics	Lining : CR , PTFE , PFA Electrode : SS 316 , HAS-C , Ti , Ta , Pt	Lining : PTFE , PFA Electrode : SS 316 , HAS-C , Ti Other : PT100 , PT1000
Process Temperature	Cryogenic : -200°C...+200°C Normal : -50°C...+200°C High Temp : -50°C...+350°C	Cryogenic : -200°C...+200°C Normal : -50°C...+200°C High Temp : -50°C...+350°C	Cryogenic : -200°C...+200°C Normal : -50°C...+200°C High Temp : -50°C...+350°C	Cryogenic : -196°C...+100°C Normal : -100°C...+200°C High Temp : -60°C...+380°C	CNG: -60°C...+150°C LNG: -196°C...+100°C	Normal : -40°C...+200°C 316L+Teflon: -40°C...+250°C High Temp Ceramics: -40°C...+300°C	CR Lining: $\leq 60^\circ\text{C}$ PTFE Lining: $\leq 160^\circ\text{C}$ PFA Lining: $\leq 180^\circ\text{C}$	PTFE Lining: $\leq 160^\circ\text{C}$ PFA Lining: $\leq 180^\circ\text{C}$
Process Pressure	Normal: 0...4 MPa High Pressure : 25...40MPa	Normal: 0...4 MPa High Pressure : 25...40MPa	Normal: 0...4 MPa High Pressure : 25...40MPa	Standard: 10 MPa High Pressure : 35MPa	Standard: 10 MPa High Pressure : 40MPa	Integral/Remote: 1.0...6.3MPa ANSI Class 150 , ANSI Class 300 Insertion: 1.6MPa	Integral/Remote: 1.0...6.3MPa ANSI Class 150 , ANSI Class 300 Insertion: 1.6MPa	Integral/Remote: 1.6...4.0MPa Insertion: 1.6MPa
Signal Output	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse	Pulse , Optional	4-20mA , Pulse	4-20mA , Pulse	4-20mA , Pulse
Communication Protocol	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , HART , Profibus , Profinet , Fieldbus , 10kHz	Modbus-RS485 , 10kHz , Optional	Modbus-RS485 , HART	Modbus-RS485 , HART	Modbus-RS485 , Customized
Power Source	24V DC , 220V AC , 22...245V	24V DC , 220V AC , 22...245V	24V DC , 220V AC , 22...245V	18...36V DC , 85...265V AC , AC/DC Adapt	18...36V DC , AC/DC Adapt	24V DC , 220V AC	24V DC , 220V AC	24V DC , 220V AC
Electrical Interface	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2" NPT , G 1/2" , G 3/4"	M20 \times 1.5 , 1/2" NPT	M20 \times 1.5 , 1/2"-14 NPT	M20 \times 1.5 , 1/2"-14 NPT	M20 \times 1.5 , 1/2"-14 NPT
Explosion-proof	Ex db ia IIC T6Gb	Ex db ia IIC T6Gb	Ex db ia IIC T6Gb	Ex ib IIC T1-T6 Gb	Ex ib IIC T1-T6 Gb	Ex de ia IIC T3-T6	Ex de ia IIC T3-T6	Ex de ia IIC T3-T6
Ingress Protection	IP 67	IP 67	IP 67	IP66 , IP67	IP66 , IP67	IP 67	IP 65 , IP 67 , IP 68	IP 65 , IP 67 , IP 68
Approvals	ISO , PCEC , CE , ATEX , SIL , UL (US)	ISO , PCEC , CE , ATEX , SIL , UL (US)	ISO , PCEC , CE , ATEX , SIL , UL (US)	ISO , PCEC , CE , ATEX , SIL , CCS , NACE	ISO , PCEC , CE , ATEX , SIL , CCS , NACE	ISO , PCEC , CE , Ex-NEPSI , SIL , CNAS	ISO , PCEC , CE , Ex-NEPSI , SIL , CNAS	ISO , PCEC , CE , Ex-NEPSI , SIL , CNAS



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