

APPROVAL STANDARD LIST

- Our products are listed by type number. In some types of products, not all models are listed.
- Some approved items have special catalog number for the listing.
- Some approved items require extra charges.
- Please contact the company for details.

Standard for safety

	Type Number		
	Pressure Controls	Temperature Controls	Solenoid Valves
CE	ANS(W)(P), DNS(W)(P) FNS(W)(P), HNS(W) ONS(W), SNS(W)(P) WNS(W), DYS, SYS CFE, ETB, FTB, HTB LTB, ACB, LCB, CCB XSK, NSK, YNS	CNS(W)(P), INS(W) TNS(W)(P)	REV, WEV, RPV, STF BPV, VPV, SEV, HPV
	Flow Switches	Fan Speed Controllers	
	FQS	RGE, XGE	
UL	Pressure Controls	Temperature Controls	Solenoid Valves
	DNS, HNS, SNS, WNS ETB, FTB, HTB, LTB, SYS ACB, XSK, NSK, DYS	CNS, TNS, EWS FWS, LWS, RWS	TEV, VPV, STF
	Flow Switches	Electronic Expansion Valves	Fan Speed Controllers
	FQS		
	Drain Pumps	AKV, UKV, VKV	RGE, XGE
MDP			
CQC	Pressure Controls	Solenoid Valves	Electronic Expansion Valves
	DYS, SYS, ACB, LCB, NSK SNS, HNS, YNS, ONS, WNS	RPV, STF, TEV-S	UKV
	Electric Proportional Valves	Fan Speed Controllers	Drain Pump
	QJV	RGE	MDP, SDP
CSA	Pressure Controls	Fan Speed Controllers	
	ETB, FTB, HTB, LTB, ACB, DNS, SNS	RGE, XGE	
IECEE	Pressure Controls		
	ETB, FTB, HTB, LTB, ACB, LCB, SNS, HNS, WNS, YNS, ONS, DYS, SYS		
DIN	Pressure Controls		
	ACB, DNS, SNS		
VDE	Pressure Controls		
	ETB, FTB, HTB, LTB, ACB		
	Solenoid Valves		
	STF(01~20, H01, H02)		

Standard for marine

	Type Number	
	Pressure Controls	Temperature Controls
LR	ANS, DNS FNS, HNS, ONS SNS, WNS, YNS	CNS, INS, TNS
DNV - GL	ANS, DNS FNS, HNS, ONS SNS, WNS, YNS	CNS, INS, TNS
BV	ANS, DNS FNS, HNS, ONS SNS, WNS, YNS	CNS, INS, TNS
ABS	ANS, DNS, FNS HNS, ONS, SNS WNS, YNS	CNS, INS, TNS
NK	ANS, DNS FNS, HNS, ONS SNS, WNS, YNS	CNS, INS, TNS

LR (Lloyd's Register of Shipping)...England
 DNV-GL (Det Norske Veritas and Germanischer Lloyd)...
 (Norway and Germany)
 BV (Bureau Veritas)...France
 ABS (American Bureau of Shipping)...America
 NK (Nippon Kaiji Kyokai)...Japan

International Protection Standard

Type Number	International Protection
Pressure Controls	
ONS, WNS, YNS, DYS SYS, ETB, FTB, HTB, LTB	IP20
ANS, FNS, HNS	IP20(Standard type) IP44(When adding cover.)
ANS(W), DNS(W), FNS(W) HNS(W), ONS(W), SNS(W) WNS(W)	IP62
ANS(P), DNS(P), FNS(P) SNS(P), NSK(BH)	IP66
Temperature Controls · Humidity Controls	
EWS, FWS, LWS, RWS CNS, INS, TNS, ALS, BLS PWS, ARS, WRS, AHS	IP20
*1 ALE, BLE	IP44
CNS(W), INS(W), TNS(W)	IP62
CNS(P), TNS(P), *2 TNE	IP66

Type Number	International Protection
Pulse Converters	
LNE	IP20
Solenoid Valves	
REV(W), UEV(W), WEV(W)	IP34
RPV(DIN plug)	IP65
RPV(Read wire)	IP67
Damper & Valve Motor Actuators	
EGK, WGK	IP62
Flow Switches	
FQS(standard Type)	IP20
FQS(Drip proof models)	IP62
Fan Speed Controllers	
RGE	IP54
XGE	IP65
Temperature Recorders	
AKM	IP20

- *1 When using the mounting bracket, the degree of protection between the front of the product and the bracket.
 *2 Protection level is front of product.
- Basically, the IP protection level of this catalog is based on the measured value of JIS C 0920.
 - The above IP protection grade is a general benchmark for the selected product.
 - If you need a certificate issued by an external agency, please contact us.