General

Explanation of Symbols



Measuring device Local reading

<u>Temperature Indicator</u>
No. 40 *



Measuring device

Sensor mounted on engine/unit

Reading/identification mounted in a panel on the engine/unit

Pressure Indicator

No. 22 *



Measuring device

Sensor mounted on engine/unit

Reading/identification outside the engine/unit

Temperature Alarm High

No. 12 *



Measureing device

Sensor mounted on engine/unit

Reading/identification in a panel on the engine/unit and reading/indication outside the engine/unit

Pressure Transmitting

No. 22 *

* Refer to standard location and text for instruments on the following pages.

Specification of letter code for measuring devices				
1st letter		Following letters		
F	Flow	Α	Alarm	
L	Level	D	Differential	
P	Pressure	E	Element	
S	Speed, System	н	High	
Т	Temperature	1	Indicating	
U	Voltage	L	Low	
V	Viscosity	s	Switching, Stop	
X	Sound	Т	Transmitting	
Z	Position	x	Failure	
		V	Valve, Atuator	

1631472-4.1 Page 1 (3)

Basic Symbols for Piping

100 25 0

General

No	Symbol	Symbol designation	No	Symbol	Symbol designation
1. GEN	GENERAL CONVENTIONAL SYMBOLS		2.14	-11-	Spectacle flange
1.1		Pipe	2.15		Orifice
1.2		Pipe with indication of direction of flow	2.16	\times	Orifice
1.3	\bowtie	Valves, gate valves, cocks and flaps	2.17		Loop expansion joint
1.4		Appliances	2.18.	>+ <	Snap coupling
1.5	0	Indicating and measuring instruments	2.19	▽	Pneumatic flow or exhaust to atmosphere
1.6		High-pressure pipe	3. VA	LVES, GATE	VALVES, COCKS AND FLAPS
1.7	-\-	Tracing	3.1	W	Valve, straight through
1.8	C1000000 # 40	Enclosure for several components as-sembled in one unit	3.2	N	Valve, angle
2. PIP	2. PIPES AND PIPE JOINTS		3.3	W	Valve, three-way
2.1		Crossing pipes, not connected	3.4	$\triangleright \blacktriangleleft$	Non-return valve (flap), straight
2.2	1	Crossing pipes, connected	3.5		Non-return valve (flap), angle
2.3		Tee pipe	3.6	D	Non-return valve (flap), straight screw down
2.4	m	Flexible pipe	3.7	K	Non-return valve (flap), angle, screw.down
2.5	-0-	Expansion pipe (corrugated) general	3.8	W	Safety valve
2.6		Joint, screwed	3.9	N	Angle safety valve
2.7		Joint, flanged	3.10	槸	Self-closing valve
2.8	-35-	Joint, sleeve	3.11		Quick-opening valve
2.9	1-	Joint, quick-releasing	3.12	N. Company	Quick-closing valve
2.10		Expansion joint with gland	3.13	丛	Regulating valve
2.11	1_2	Expansion pipe	3.14	1231	Ball valve (cock)
2.12		Cap nut	3.15	W	Butterfly valve
2.13		Blank flange	3.16	网	Gate valve
2.13		Blank flange	3.16	IW	Oale valve

100 25 0

Basic Symbols for Piping

, 1631472-4.1 Page 2 (3)

General

Symbol	Symbol designation	No	Symbol	Symbol designation
*	Double-seated changeover valve	4. CO	NTROL AND	REGULATION PARTS
	Suction valve chest	4.1	T	Fan-operated
*** -	Suction valve chest with non-return valves	4.2		Remote control
M	Double-seated changeover valve, straight	4.3	#	Spring
K	Double-seated changeover valve, angle	4.4	-	Mass
M	Cock, straight through	4.5	70	Float
Q 1	Cock, angle	4.6	甲	Piston
图	Cock, three-way, L-port in plug	4.7	Ŷ	Membrane
图	Cock, three-way, T-port in plug	4.8	M	Electric motor
斑	Cock, four-way, straight through in plug	4.9	~	Electromagnetic
(1)	Cock with bottom connection	4.10	Ħ	Manual (at pneumatic valves)
XX	Cock, straight through, with bottom conn.	4.11	¢⊏	Push button
91	Cock, angle, with bottom connection	4.12	WIL	Spring
M	Cock, three-way, with bottom connection	4.13	四□	Solenoid
- P	Thermostatic valve	4.14	(ZRC	Solenoid and pilot directional valve
M ₁	Valve with test flange	4.15	Œ	By plunger or tracer
图	3-way valve with remote control (actuator)	5. API	PLIANCES	
\(\rightarrow \)	Non-return valve (air)	5.1		Mudbox
ġ	3/2 spring return valve, normally closed	5.2		Filter or strainer
	2/2 spring return valve, normally closed	5.3		Magnetic filter
412	3/2 spring return valve contr. by solenoid	5.4		Separator
- 	Reducing valve (adjustable)	5.5		Steam trap
a[]] -	On/off valve controlled by solenoid and pilor directional valve and with spring return	5.6		Centrifugal pump
	中島自由今天子城區四回四回四日下下縣縣平	Double-seated changeover valve Suction valve chest Double-seated changeover valve, straight Double-seated changeover valve, angle Cock, straight through Cock, angle Cock, three-way, L-port in plug Cock, three-way, T-port in plug Cock, four-way, straight through in plug Cock with bottom connection Cock, straight through, with bottom conn. Cock, angle, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, angle, with bottom connection Non-return valve (air) 3/2 spring return valve, normally closed 2/2 spring return valve contr. by solenoid Reducing valve (adjustable) On/off valve controlled by solenoid and pilo	Double-seated changeover valve Suction valve chest 4.1 Suction valve chest with non-return valves Double-seated changeover valve, straight Double-seated changeover valve, angle Cock, straight through Cock, angle Cock, angle Cock, three-way, L-port in plug Cock, three-way, T-port in plug Cock, three-way, T-port in plug Cock, straight through in plug Cock with bottom connection Cock, straight through, with bottom conn. Cock, straight through, with bottom conn. Cock, angle, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, three-way with remote control (actuator) Non-return valve (air) 3/2 spring return valve, normally closed 2/2 spring return valve, normally closed 3/2 spring return valve contr. by solenoid Reducing valve (adjustable) Con/off valve controlled by solenoid and pilot	Double-seated changeover valve Suction valve chest Suction valve chest Double-seated changeover valve, straight Double-seated changeover valve, angle Cock, straight through Cock, angle Cock, three-way, L-port in plug Cock, three-way, T-port in plug Cock, three-way, T-port in plug Cock, three-way, straight through in plug Cock, straight through, with bottom conn. Cock, straight through, with bottom conn. Cock, angle, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, three-way, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, angle, with bottom connection Cock, three-way, with bottom connection Cock, three-way, with bottom connection Cock, three-way, with connection Cock, straight through, with connection Cock, three-way, with connection Cock, straight through, with connection Cock, straight through Cock, three-way, with connection Cock, straight through Cock, three-way, with connection Coc

1631472-4.1 Page 3 (3)	Basic Symbols for Piping	100 25 0
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General

ool designation
e tray
tray with plug
charger
oil pump
ng
jacket
speed device
HORDINARY DESIGNATIONS
flow indicator
rvation glass
indicator
nce level indicator
der