

MODEL IC

Mud and Slurry Relief Valve



FROM THE
CREATORS
OF THE
Original
BUCKLING
PIN
VALVE

Precise.

Quality.

Reliable.



Get Better Performance and Longer Life!

Lower your Downtime and Save Money!





"POCO" Pin Design Variation

This intelligent design allows the user to change the set pressure of the valve by simply changing pins.

This is done by affixing pin spacers on each end of the Rupture Pin while keeping the overall length of the pin assembly constant.

Advantages

1002 and 1502 hammer unions.

Relief settings from 1,000 to 10,000 PSI with POCO set pressure pins. Set Pressure Tolerance: +/-5%* when new from the factory.

Change the settings by changing the pin. The set pressure is shown on the pin label. The 3" Model IC valve uses the same interchangeable pins. In addition, the pins are color-coded accordingly.

Reliable settings.

Simple dependable operation.

One moving part.

Fatigue and pulsation are not factors that affect the set pressure of the valve.

Reaches open position in milliseconds.

Provides a bubble-tight seal to set point.

Stainless-steel seat and piston are standard.

Greater washout resistance with no direct impingement on the seat, piston or seal.

Field repairable.

Visual indication of opening.

Unaffected by changing ambient temperatures on the pin.

Pin cannot fatigue or buckle early.

No environmental exposure to process fluids.

COLOR CODED PINS

Pins for the Mud Valve are color coded to show each individual set pressure.

MUD RELIEF VALVES - "POCO" PIN CHART*

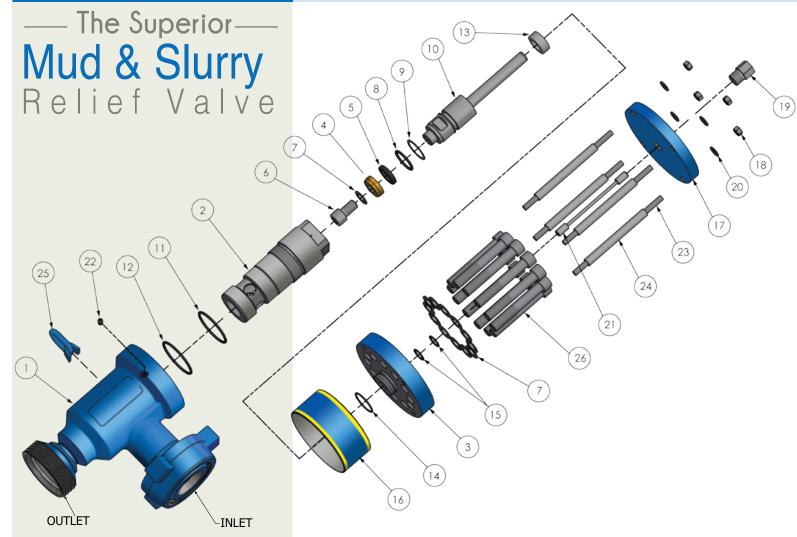
3"	BRONZE
	DIVOITE
3"	AQUA
3"	LT. GREEN
3"	GRAY
3"	GOLD
3"	BLACK
3"	WHITE
3"	DK. BLUE
3"	ORANGE
3"	DK. GREEN
3"	YELLOW
3"	RED
3"	LT. BLUE
3"	TAN
3"	Met. Bronze
3"	PINK
3"	SILVER
3"	FUCHSIA
3"	BROWN
3"	OLIVE
3"	PURPLE
	3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3

^{*}For other set pressures, contact Taylor Valve.

^{• +/- 8%} when in service due to varying process conditions.

MODEL IC

GET THE POWER OF THE PIN.



Parts List - MODEL IC

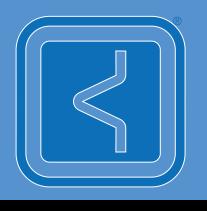
ITEM NO.	DESCRIPTION	QTY
1	BODY	1
2	SEAT CAGE	-1
3	BONNET	1
4	SEAL RETAINER	1
5	MAIN SEAL	1
6	PISTON BOLT	-1
7	WEDGE LOCK WASHER [BONNET]	12
8	O-RING [PISTON]	1
9	BACK-UP RING [PISTON]	1
10	PISTON	-1
11	O-RING [UPPER CAGE]	1
12	O-RING [LOWER CAGE]	1
13	BUMPER	1
14	O-RING [BONNET]	-1
15	O-RING [STEM]	2
16	SLEEVE	-1
17	TOP PLATE	-1
18	HEX NUT [TOP PLATE]	4
19	HOLDING NUT	1
20	WEDGE LOCK WASHER[TOP PLATE]	4
21	RUPTURE PIN	1
22	GREASE FITTING	1
23	POST	4
24	SPACER	4
25	LIFTING LUG	1
26	BONNET BOLT	12

How It Works

Pressure acting on a differential piston area puts an axial force on the pin.

At an exact set point, the pin buckles and the valve opens in milliseconds for immediate pressure relief.

Relieves pressure to prevent pump, hose and system damage on mud and slurry pump systems - ideal for pulsating pressure.



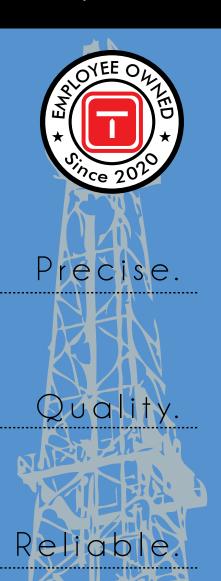
Taylor Valve Technology 8300 S.W. 8th Street Oklahoma City, Oklahoma 73128

TEL 405.787.0145

FAX 800.805.3401

WEB www.taylorvalve.com

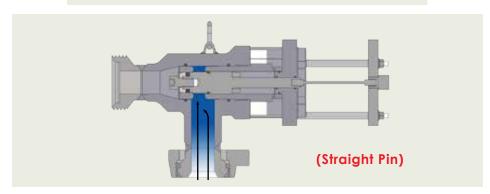
EMAIL info@taylorvalve.com



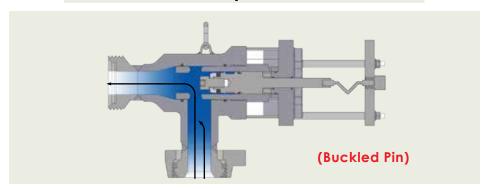
OPERATION

In the closed position, an elastomer seal contacts a machined, stainless-steel piston seat for a bubble-tight shut off. When the pin buckles, the piston moves fully open in milliseconds to a protected position to allow full flow pressure relief.

Closed



Open



STANDARD MATERIALS

Model IC: AISI 4130, Forged Body with stainless-steel trim. Other materials optional. *Drilling compatible seals*.

CONNECTIONS

Standard and custom connections available.

CERTIFICATIONS

Available with domestic offshore and international certifications and standards upon order request.

OPTIONS

1. STAINLESS-STEEL SAFETY CAGE

- 2. PIN CONTAINER
- 3. PROXIMITY SENSOR





1/23/23