

# CAST STEEL RELIEF CHECK VALVE FOR LIQUIDS (EXTERNAL SPRING)

**FOR WATER INDUSTRY USE ONLY  
WITHIN THE EUROPEAN COMMUNITY**

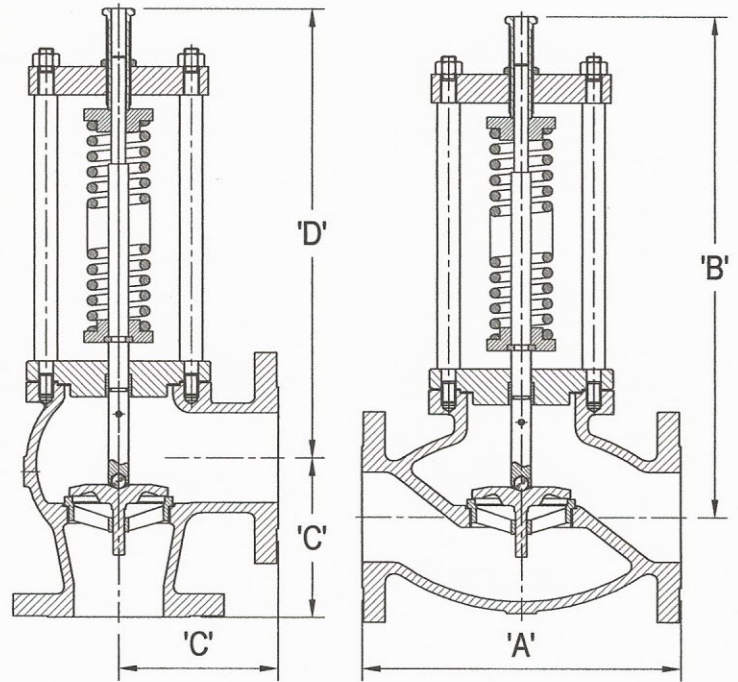
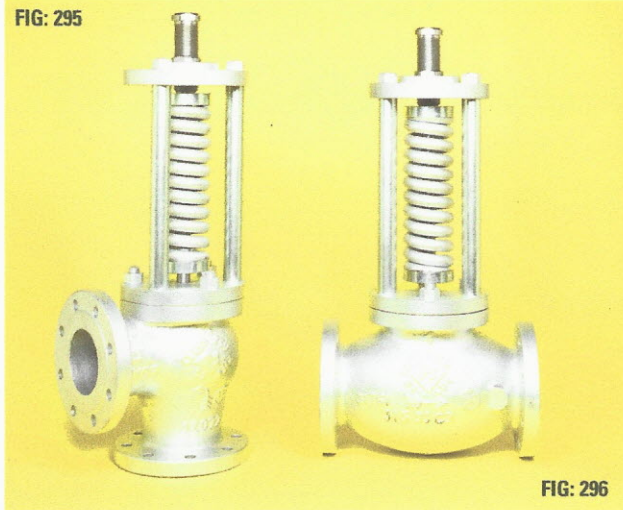


FIG No. 295

FIG No. 296

**FLANGED:**

BS EN 1092-1 PN10, PN16, PN25, PN40.  
BS 10 Tables E, F, H.  
ANSI B16.5 Class 150.

**CONSTRUCTION:**

This traditional design is suitable for systems with open discharge to atmosphere. The external spring is not in contact with the discharge liquid. The valve is intended to relieve excess liquid, and must not be used as a safety valve to prevent system failure as referenced in the Pressure Systems Safety Regulations SI 2000 No. 128. Flanges will be drilled unless otherwise specified on order.

**MATERIALS:**

Body Carbon steel BS EN 10213 gr. GP240GH (WCB) 0.23%C max.  
Cover Carbon steel to BS EN 10028 161 - 430  
Disc Stainless steel to ASME SA 487 CA6NM Cl.'A'  
Seat Ring Stainless steel to BS EN 10283 1.4408  
Spring Spring alloy steel in accordance with BS 1726 chrome vanadium alloy coated.

PILLARS SHOWN AT 90°  
TO ACTUAL POSITION

**PRESSURE / TEMPERATURE RATING:**  
(Detailed on Valve I/D plate)  
Minimum set pressure 5psi (0.35 Bar)  
Maximum set pressure 116psi (8.0 Bar)  
Maximum Temperature 40°C

**STANDARD SPRING RANGE:  
Nominal Sizes 50mm to 100mm**

Spring No.	PSI	Bar
1	5 - 13	0.35 - 0.9
2	10 - 25	0.7 - 1.7
3	20 - 50	1.4 - 3.5
4	40 - 100	2.7 - 6.9
5	90 - 116	6.2 - 8.0

Nominal Size (Fig. 296)		50	65	80	100
A	PN 10	254	280	305	356
	BST E, F	254	280	305	356
B		343	400	443	564

Nominal Size (Fig. 295)		50	65	80	100
C	PN 10	127	140	152	178
	BST E, F	127	140	152	178
D		324	360	413	516

**OPTIONAL EXTRAS:**

Easing lever and cover locking unit.

**TYPE OF APPLICATION:**

Thermal and pressure relief

**LINE MEDIA:**

Effluent.  
Sewage sludge.