

Pressure Relief Valves

Direct Spring Operated PRVs



Brand/Model: Crosby Styles J0S-E and JBS-E

Features: Conventional and Balanced Bellows Spring loaded pressure relief valves built in accordance with API Standards 526 and 527 for air, gas, steam and vapor. Styles JLT-J0S-E and JLT-JBS-E for liquid service and two phase applications.

Sizes: 1" x 2" to 8" x 10"

Orifices: 0.110 to 27.872 in² [0.710 to 167.7 cm²]

Inlet Ratings: ANSI Class 150 to 2500

Temperature Range: -450 to +1000°F [-268 to +538°C]

Set Pressures: 5 to 6000 psig [0.34 to 413 barg]

Code: ASME VIII [15 psig and above]

Request data sheet: CROMC-0297

Direct Spring Operated PRVs



Brand/Model: Crosby Style JB-TD ("Over T")

Features: Large orifice pressure relief valve product line is an extension of API Standard 526 designs for air, gas, steam and vapor applications. The broad JB-TD product offering represents an alternative to multiple, smaller orifice relief valves.

Sizes: 10" x 14" to 20" x 24"

Orifices: 42.19 to 185.0 in² [272.19 to 1193.55 cm²]

Inlet Rating: ANSI Class 300

Temperature Range: -20 to +450°F [-29 to +232°C]

Set Pressure: 25 to 300 psig [1.72 to 20.69 barg]

Code: ASME VIII

Request data sheet: CROMC-0290

Direct Spring Operated PRVs



Brand/Model: Crosby Series 900 OMNI-TRIM®

Features: Single trim design, fixed blowdown design for medium flow of air, gas, steam, vapor, liquid and two phase applications. Full nozzle design. Available with metal or O-ring seat construction.

Sizes: 1/2" x 1" to 2" x 2"

Orifices: 0.074 to 0.503 in² [0.477 to 3.25 cm²]

Connections: NPT, Flanged, Socket Weld

Temperature Range: -450 to +750°F [-268 to +399°C]

Set Pressures: 5 to 5000 psig [0.34 to 344.83 barg]

Code: ASME VIII [15 psig and above]

Request data sheet: CROMC-0294

Pressure Relief Valves

Direct Spring Operated PRVs

Brand/Model:	Crosby Series 800
Features:	Adjustable blowdown design for medium flow of air, gas, vapor and steam applications. External precise blowdown adjustment provides shorter blowdown than the Series 900. Full nozzle design. Available with metal or O-ring seat.
Sizes:	3/4" x 1" to 2" x 2"
Orifices:	0.110 to 0.503 in ² [0.71 to 3.25 cm ²]
Connections:	NPT, Flanged, Socket Weld
Temperature Range:	-450 to +750°F [-268 to +399°C]
Set Pressures:	15 to 1500 psig [1.03 to 103.42 barg]
Code:	ASME VIII

Request data sheet: CROMC-0294



Direct Spring Operated PRVs

Brand/Model:	Crosby Series BP OMNI-TRIM®
Features:	Balanced piston, single trim design for gas, vapor and liquid applications involving variable back pressure. Full nozzle design with O-ring seat as standard.
Sizes:	3/4" x 1" and 1" x 1"
Orifices:	0.074 and 0.110 in ² [0.477 and 0.71 cm ²]
Connections:	NPT, Flanged
Temperature Range:	-20 to +400°F [-28 to +204°C]
Set Pressures:	50 to 1500 psig [3.45 to 103.44 barg]
Code:	ASME VIII

Request data sheet: CROMC-0293



Direct Spring Operated PRVs

Brand/Model:	Crosby Series 82
Features:	Designed to provide premium performance in the natural gas market. The Series 82 has a rugged construction designed specifically for high pressure multi stage natural gas compressors. The Series 82 valve is designed to provide superior seating performance using a Viton® o-ring seat. The 2-piece body design with replaceable seat and seals reduce downtime and maintenance costs over the life of the valve.
Sizes:	3/4" x 1" to 1" x 1"
Orifices:	D 0.127 in ² [0.819 cm ²] E 0.221 in ² [1.423 cm ²]
Connections:	MNPT x FNPT
Temperature Range:	-15°F to 400°F [-26°C to 204°C]
Set Pressures:	15 to 1500 psig [1.03 to 103 barg]
Code:	ASME VIII

Request data sheet: CROMC-0806



Safety Valves

Direct Spring Operated



Brand/Model:	Crosby Style HE ISOFLEX®
Features:	High capacity safety valve for drum service, saturated steam applications. Two ring control and back pressure-assist close design are standard. ISOFLEX® seat design provides seat tightness up to 96% of set pressure.
Sizes:	2 1/2" x 6" to 4" x 8"
Orifices:	1.840 to 7.070 in ² [11.87 to 45.61 cm ²]
Connections:	ANSI Flanged or Butt Weld Inlet and ANSI Flanged Outlet
Maximum Temperature:	Saturated steam
Maximum Set Pressure:	3000 psig [207 barg]
Code:	ASME I

Request data sheet: CROMC-0295

Direct Spring Operated



Brand/Model:	Crosby Style HSJ
Features:	Full nozzle safety valve for saturated and superheated steam service. Two ring control. Style HSJ-DOW with closed bonnet and screwed cap for Dowtherm service.
Sizes:	1 1/2" x 2" to 6" x 8"
Orifices:	0.307 to 11.045 in ² [1.98 to 71.25 cm ²]
Inlet Ratings:	ANSI Class 150 to 2500
Maximum Temperature:	1000°F [538°C]
Maximum Set Pressure:	2700 psig [186.2 barg]
Code:	ASME I and VIII

Request data sheet: CROMC-0295

Direct Spring Operated



Brand/Model:	Crosby Style HCI ISOFLEX®
Features:	High capacity safety valve for saturated and superheated steam service. Two ring control and optional restricted lift feature. ISOFLEX® seat design provides seat tightness up to 96% of set pressure.
Sizes:	1 1/2" x 3" to 6" x 10"
Orifices:	0.994 to 19.29 in ² [6.41 to 124.45 cm ²]
Connections:	ANSI Flanged or Butt Weld Inlet and ANSI Flanged Outlet
Maximum Temperature:	1100°F [593°C]
Maximum Set Pressure:	3000 psig [207 barg]
Code:	ASME I and VIII

Request data sheet: CROMC-0295

Specialty Valves

Brand/Model:	Crosby Style PVR Pressure/ Vacuum Pressure Relief Valve
Features:	Designed for the food & beverage and pharmaceutical industries, the PVR relieves excess air or gas pressure, relieves excess liquid pressure in the absence of air or gas blanketing and prevents formation of a vacuum that could cause the vessel to buckle due to external pressure.
Sizes:	3" and 4"
Inlet Connections:	Lug Union Nut, ANSI flanged, Tri-clamp
Set Pressures:	14.5 to 125 psig [1 to 8.62 barg]
Vacuum Relief (typical):	2" wc [5 mbarg]
Temperature Range:	-15 to +400°F [+5 to +204°C]
Code:	ASME VIII [15 psig and above] <i>Request data sheet: CROMC-0330</i>

