



CATALOGUE NO.
VR-22

INSTRUMENTATION / CNG *RELIEF VALVES*

THE COMPANY :

DAWSONS-TECH® is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent, Reliable and Superior Quality** High Pressure Instrumentation / CNG / Hydrogen Products used in Vehicles, Fueling Equipments like CNG Cascades, CNG Dispensers, Booster Compressors, Online Compressors, Decompression Skid, LCV Filling Post, Meter Regulation Skids, Pressure Regulation Skids, etc.

dedicated team of employees in place. This facilitate us to design and manufacture our product range under stringent quality checks and measurements that ensures **"A TOTAL CUSTOMER SATISFACTIONS"**.

QUALITY :

DAWSONS-TECH® pursues not only performance of its products but also ensures **"TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE WITH ISO 9001:2015"** which is achieved by alerting and educating each and every employee, the importance of quality and by implementing the quality control procedures at every stage of production to final inspection from incoming raw material to finish products.

MANUFACTURING :

DAWSONS-TECH® established its comprehensive state of art manufacturing and testing facility installing various CNC Turning Centre and CNC Turnmill Centre, Vertical Machining Centre, etc. with the highly motivated and

 OUR CAPABILITIES	 CERTIFICATIONS	 BENEFITS
<ul style="list-style-type: none"> • Over 35 Years of Experience • Excellent Technical Knowledge • Latest Design Equipment's & Software • Modern Manufacturing Facilities • Highly Motivated Team of Employees • Excellent Inspection Facilities • Product Performance Testing Facilities 	<ul style="list-style-type: none"> • ISO 9001-2015 • ISO 14001-2015 • ISO 45001-2018 • PED 2014/68/EU • ASTM F1387-19 • MSS SP-99-2016a • Helium Leak Test • Hydro Static Proof Test • Pneumatic Proof Test 	<ul style="list-style-type: none"> • High Quality • Proven Design for Leak Free Connections • Effective Operations • High Efficiency • Prompt Reply • Maximum Flexibility • Maximum Safety in Operation • Substantial Cost Saving

RESEARCH & DEVELOPMENT :

With our extensive experience, expertise and continues Research & Development with incorporation of advanced technology and high-tech cutting-edge machineries, **DAWSONS-TECH®** is committed to constant upgradation and expand its product range to meet the requirements of its customer to their entire satisfaction at every time.

CUSTOMER SATISFACTION :

We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with **Very Competitive Price**.

OUR MISSION

 RESPONSIBILITY	 RELIABILITY	 ENVIRONMENTAL AWARENESS	 TECHNICAL EXPERTISE	 INNOVATIVE TECHNOLOGY	 DEVELOPMENT	 CUTTING EDGE SOLUTIONS	 TOTAL CUSTOMER SATISFACTION
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DAWSONS-TECH® Safety Relief Valves Series : SRV027 have been very carefully designed and manufacture for High Pressure Applications.

Features / Benefits :

- Available in Material SS316.
- Identifying Coloured Springs for each pressure range.
- Replaceable Springs for variable pressure range.
- Every Valve is pressure tested.
- Available with Seal Material Viton® as Standard.



Operations :

- The Poppet of Safety Relief Valves opens when the system pressure overcome the set cracking pressure.
- The Poppet of Safety Relief Valves closes when the system pressure goes below the set cracking pressure.
- To increase the cracking pressure of the Safety Relief Valves, simply tighten the adjustment cap clockwise.
- To decrease the cracking pressure of the Safety Relief Valves, simple open the adjustment cap anti-clockwise.

Operating Parameters :

- Pressure Rating : UPTO 413 Bar (6000 PSIG)
- Cracking Pressure : From 3.4 Bar (50 PSIG) to 413 Bar (6000 PSIG)
- Temperature Rating : UPTO 121°C
- End Connections : Fractional 1/4"
- Pipe Threads : : 1/4" Male / Female BSP / BSPT / NPT

Applications :

- Fluids and Gases

Type Test Approvals :

The design of **DAWSONS-TECH®** Safety Relief Valves Series : SRV027 have been tested to Hydrostatic Proof and Burst Test in accordance with MSS SP-99-2016a Clause 5.5 & 5.6.

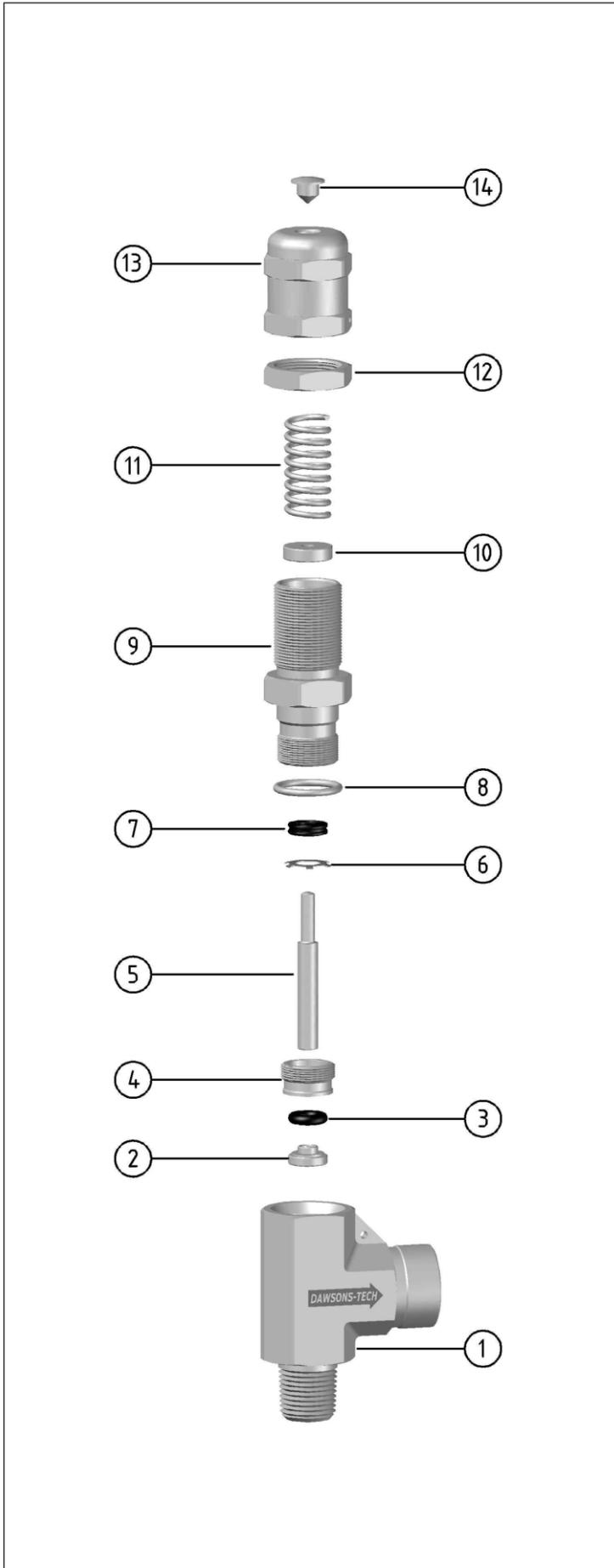
Testing :

- Standard Test : Each Valve is Factory Tested for Cracking set pressure and re-sealing performance.

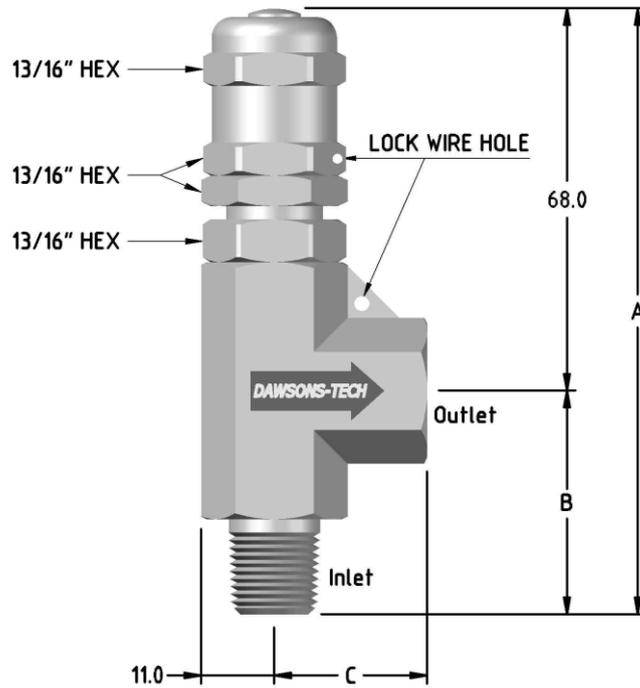
Certification :

The certificate to 3.1 acc. to EN10204 for Valve Body Material and pressure test will be provided on request.

Material of Construction :



Sr. No.	Part Description	Material
1	Valve Body	SS316
2	Valve Insert	SS316
3	Seat Seal	Viton
4	Clamp Screw	SS316
5	Valve Poppet	SS316
6	Retainer Ring	SS316
7	Stem Seal	Viton
8	Bonnet 'O' Ring	Viton
9	Valve Bonnet	SS316
10	Spring Support Disc	SS316
11	Spring	Stainless Steel
12	Lock Nut	SS316
13	Adjustment Cap	SS316
14	Cap Plug	Brass



STANDARD CONFIGURATION DIMENSIONS

Connection Size		Orifice (mm)	Dimension in mm			Dawsons-Tech Part No.
Inlet	Outlet		A	B	C	
1/4" ODT	1/4" ODT	3.6	105	36.6	40.7	SRV027-TT4
1/4" Male NPT	1/4" ODT	3.6	98.5	30.2	40.7	SRV027-M4N-T4
1/4" Male NPT	1/4" Female NPT	3.6	98.5	30.2	29.7	SRV027-MF4N
1/4" Male BSPT	1/4" Female BSPT	3.6	98.5	30.2	29.7	SRV027-MF4RT
6mm ODT	6mm ODT	3.6	105	36.6	40.7	SRV027-TT6M
8mm ODT	8mm ODT	3.6	105	36.6	40.7	SRV027-TT8M

Ordering Information :

1)	Valves Type Relief Valves	Series SRV027
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2)	End Connection Type	TT : Tube OD x Tube OD
		FF : Female x Female
		MM : Male x Male
		MF : Male x Female
		FM : Female x Male

End Connection Size			
Fractional Tube / Pipe Thread Size		Metric Tube	
Size	Code	Size	Code
1/4"	4	6MM	6M
		8MM	8M

4)	End Connection Thread Type	N : NPT (Male / Female)
		RT : BSPT (Male / Female)

Nominal Cracking Pressure Range & Spring Designator			
PSIG	Bar	Spring Designator	Color
50-350	3.4-24	A	Blue
350-750	24-51.5	B	Yellow
750-1500	51.5-103	C	Purple
1500-2250	103-155	D	Orange
2250-3000	155-206	E	Green
3000-4000	206-275	F	White
4000-5000	275-344	G	Red
5000-6000	344-413	H	Black

6)	Material	SS : SS316
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7)	Seal Material	V : Fluorocarbon
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Registered Office and Manufacturing Plant :

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