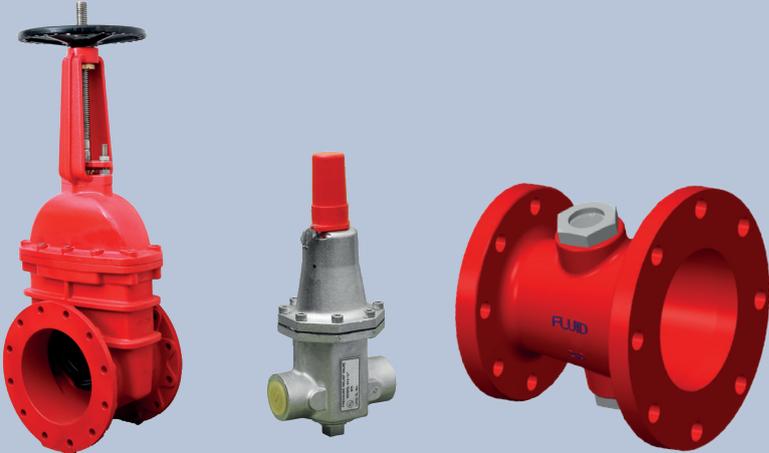


FLUID PUMPS & EQUIPMENT INDIA PVT. LTD.

FIRE PROTECTION



VALVES



Model F722

OS & Y Gate Valve



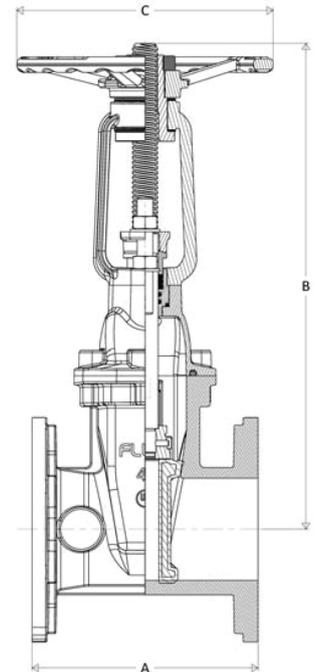
Technical Features

- Fire Protection Valve.
- Outside Screw & Yoke Rising Stem - Resilient Seat.
- Working pressure : 250 PSI
- Seat test pressure : 375 PSI
- Shell test pressure : 500 PSI
- Finished : Epoxy painted RAL 3001 - Std.
 Fusion bonded Epoxy - Opt.
- Connection: Flanged ANSI B 16.1, Class 150 FF - Std.
 Grooved to AWWA C606 - Opt.
- Tamper switch notch available for tamper switch mounting.



Material Specifications

Part Name	Material
Body	Ductile Iron
Disc	EPDM Encapsuled Ductile Iron
O-Ring	<input type="checkbox"/> EPDM - Std. <input type="checkbox"/> NBR - Opt.
Stem Nut	Bronze
Stem	<input type="checkbox"/> SS304 - Std. <input type="checkbox"/> SS316 - Opt. <input type="checkbox"/> SS316L - Opt.
Gasket	EPDM
Bonnet	Ductile Iron
Stud	<input type="checkbox"/> SS304 - Std. <input type="checkbox"/> SS316 - Opt.
Hex Nut	<input type="checkbox"/> SS304 - Std. <input type="checkbox"/> SS316 - Opt.
Yoke	Ductile Iron
Stem Packing	<input type="checkbox"/> EPDM - Std. <input type="checkbox"/> NBR - Opt.
Gland	Ductile Iron
Socket Head Bolt	<input type="checkbox"/> SS304 - Std. <input type="checkbox"/> SS316 - Opt.
Yoke Sleeve	Bronze
Thrust Washer	Bronze
Hand Wheel	Ductile Iron
Wheel Nut	Ductile Iron



Dimensions

Valve Size	50mm/ 2"		65mm/ 2-1/2"		80mm/ 3"		100mm/ 4"		150mm/ 6"		200mm/ 8"		250mm/ 10"		300mm/ 12"	
	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch
A	178	7	190	7.5	209	8	234	9	268	10.5	294	11.5	330	13	358	14.0
B(Open)	415	15.9	430	15.9	572	22.5	614	24.1	819	32.1	996	39.8	1342	52.8	1435	56.1
B(Close)	348	13.5	357	13.5	484	19.0	500	19.7	652	25.7	782	31.3	1072	42.2	1115	43.5
C	180	7.08	180	7.08	260	10.2	260	10.2	306	12.0	355	13.9	410	16.1	410	16.1

Note:

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Model 513 & 513A

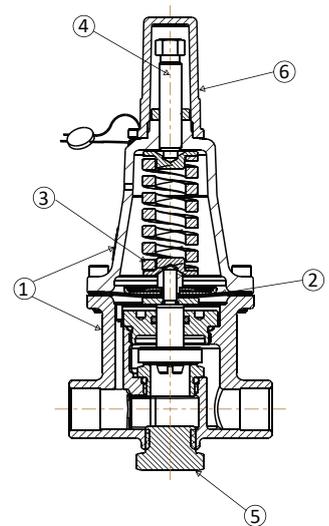
Pressure Relief Control Valve

- FLUID® Model 513 Pressure Relief Control Valve is a direct-acting, spring loaded, diaphragm type relief valve.
- Model 513 is available with Brass construction as standard & model 513A is available with stainless steel construction.
- The PRV is intended to use in fire systems where maintaining pressure limit is critical for smooth operation to open & shut within close differential pressure limits.
- Available in Globe & Angle type configuration and suitable for vertical & horizontal installation.
- PRV set pressure is field adjustable with a range from 20 psi to 150 psi for LP model & 150 psi to 300 psi for HP model.
- Pressure gauge port (1/4") is provided for accurate pressure setting.



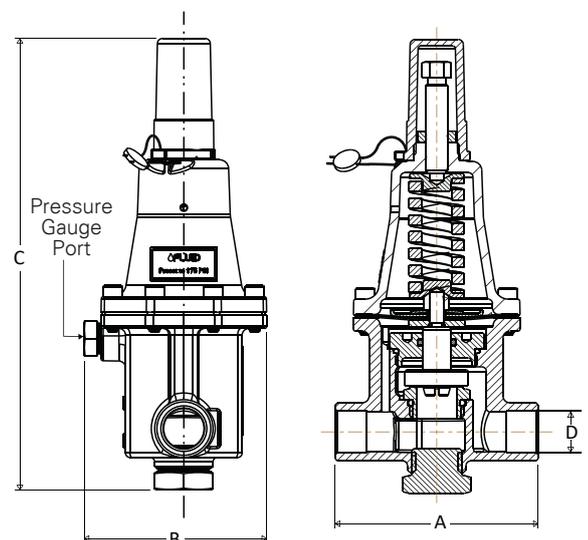
Material Specification

Sr. No.	Items	Model 513	Model 513A
1	Body & Cover	Brass	Stainless Steel (CF-8M)
2	Diaphragm	EPDM/NBR	EPDM/NBR
3	Spring Guide	Stainless Steel (SS316)	Stainless Steel (SS316)
4	Adjustment Screw	Brass	Stainless Steel (SS316)
5	Plug	Brass	Stainless Steel (SS316)
6	Tamper Proof Cap	ABS Plastic	ABS Plastic



Dimensions

Nominal Size mm / in	A	B	C	D
15	90	82.5	205	1/2" NPT
1/2	3.54	3.25	8.07	1/2" NPT
20	90	82.5	210	3/4" NPT
3/4	3.54	3.25	8.27	3/4" NPT



Operation

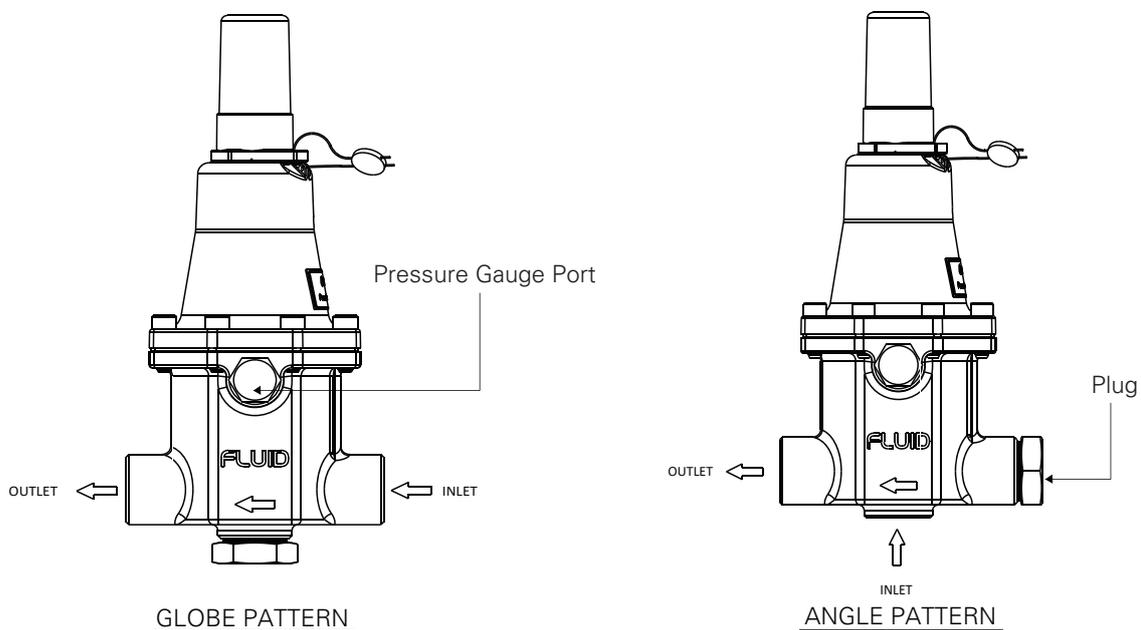
Typically used in Fire Protection, FLUID Pressure Relief Valve prevents excess pressure built up in a system. At a point when pressure exceeds the set limit, the valve opens, releasing excess pressure to the atmosphere & when pressure falls below the set point, the valve closes drip tight to its normally closed position.

The single port is closed by the force of the adjustable spring located above the pressure sensing diaphragm. When the force exceeds the force of the spring the valve will open to relieve the pressure and will close tight when pressure falls below the preset value.

Pressure adjustment can be done at field by turning the adjusting screw to vary the spring load within the adjustable range. The adjustment cap is wire sealed to prevent unauthorized tampering of set point.

Configuration

Model 513 & 513A PRV is a versatile design which can be installed either in globe or angle pattern configuration for ease of installation.



Adjustable Range & Set Point

Model	Size	Adjustable Range		Factory Set Point*		Maximum Pressure Rating		Installation	Approval
		psi	bar	psi	bar	psi	bar		
513-LP	½", ¾"	20 - 150	1.37 - 10.34	100	6.9	300	20.68	H / V	UL
513-HP	½", ¾"	150 - 300	10.34 - 20.68	175	12.06	300	20.68	H / V	UL
513A-LP	½", ¾"	20 - 150	1.37 - 10.34	100	6.9	300	20.68	H / V	UL
513A-HP	¾"	150 - 300	10.34 - 20.68	175	12.06	300	20.68	H / V	UL

* Custom set points are available up on request within these parameters.

H: Horizontal Installation, V: Vertical Installation

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FACTORY (IND)
7/222, Nagamannaickenpalayam
Pattanam, Coimbatore - 641016
Tamil Nadu, India

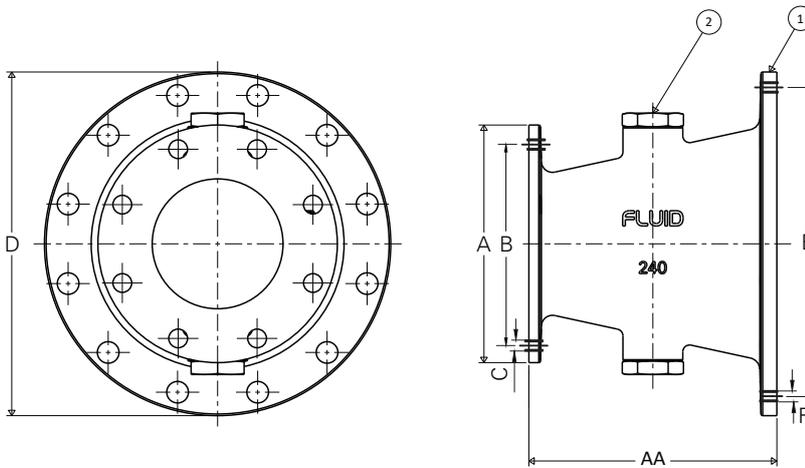
FOUNDRY (IND)
Gas Company Road
Idikarai, Coimbatore - 641022
Tamil Nadu, India

WAREHOUSE (UAE)
Plot: 599-2285
Jebel Ali Industrial Area-1
Dubai, UAE

Model 240

Waste Cone

- FLUID® Waste Cone are manufactured and designed in accordance with NFPA 20 requirements for use with UL / FM approved fire pump pressure relief valves.
- Connection : Inlet and outlet flanges ASME B16.42 class 150 FF.
: Other flanges or gooved connections available upon request.
- Finish : Supplied with Red painted RAL 3000 as standard.
: Other RAL colours or galvanised finish is available upon request.



Material Specification

Sr. No.	Part Name	Material
1	Body	Ductile Iron ASTM A536
2	Sight Glass	Galvanized Steel with Tuffen Glass

Dimensions

Inlet/Outlet (mm / in)	Fire Pump Rated Flow (gpm)	Inlet Flange Details				Outlet Flange Details				AA (mm / in)
		A (mm / in)	B (mm / in)	C (mm / in)	No. of Bolt Holes	D (mm/in)	E (mm/in)	F (mm / in)	No. of Bolt Holes	
80 x 100 3 x 4	300	190 7.48	152.4 6	19.1 0.75	4	230 9.05	190.5 7.5	19.1 0.75	8	210 8.26
80 x 150 3 x 6	400-500	190 7.48	152.4 6	19.1 0.75	4	280 11.02	241.3 9.5	22.23 0.875	8	230 9.05
100 x 150 4 x 6	750	230 9.05	190.5 7.5	19.1 0.75	8	280 11.02	241.3 9.5	22.23 0.875	8	230 9.05
100 x 200 4 x 8	1000	230 9.05	190.5 7.5	19.1 0.75	8	345 13.58	298.5 11.75	22.23 0.875	8	260 10.23
150 x 200 6 x 8	1250-1500	280 11.02	241.3 9.5	22.23 0.875	8	345 13.58	298.5 11.75	22.23 0.875	8	260 10.23
150 x 250 6 x 10	2000-2500	280 11.02	241.3 9.5	22.23 0.875	8	405 15.94	362 14.25	25.4 1	12	290 114.48

Note:

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Confirmation Letter



UL CUSTOMER FLUID PUMPS & EQUIPMENT INDIA PVT LTD
7/222 Nagamanaickenpalayam Pattanam
Coimbatore, Tamil Nadu 641016 India

UL CUSTOMER FILE # EX28071
CATEGORY Gate Valves | HMRZ

May 17, 2022

As of the above date, UL LLC confirms that FLUID PUMPS & EQUIPMENT INDIA PVT LTD is the party associated with UL File # EX28071 that appears in the UL Product iQ platform. Public information contained in UL File # EX28071 can be viewed using the following link:

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If you have questions regarding this letter, please contact the UL Customer Experience Center at cec@ul.com.

Sincerely,

Leadership & Governance Team
UL Product iQ

Confirmation Letter



UL CUSTOMER FLUID PUMPS & EQUIPMENT INDIA PVT LTD
7/222 Nagamanaickenpalayam Pattanam
Coimbatore, Tamil Nadu 641016 India

UL CUSTOMER FILE # EX27976
CATEGORY Valves, System Pressure Relief | VQDI

May 17, 2022

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If you have questions regarding this letter, please contact the UL Customer Experience Center at cec@ul.com.

Sincerely,

Leadership & Governance Team
UL Product iQ



VQDI.EX27976 - Valves, System Pressure Relief

Valves, System Pressure Relief

[See General Information for Valves, System Pressure Relief](#)

FLUID PUMPS & EQUIPMENT INDIA PVT LTD

EX27976

7/222 Nagamanaickenpalayam Pattanam
Coimbatore, Tamil Nadu 641016 INDIA

Model	Type	Nom Pipe Size, NPS	Set Pressure Value, psig	Installation Orientation
513 - LP	Adjustable	1/2, 3/4	20 - 150	H,V
513 - HP	Adjustable	1/2, 3/4	150 - 300	H,V
513A - LP	Adjustable	1/2, 3/4	20 - 150	H,V
513A - HP	Adjustable	3/4	150 - 300	H,V

T - Threaded

H - Horizontal installation

V - Vertical installation

[Last Updated](#) on 2020-06-05

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