



SERIES D53 GAS PRESSURE REGULATOR



Nirmal ™

INDUSTRIAL CONTROLS PVT. LTD.

Expertise that delivers

SERIES D53

GAS PRESSURE REGULATOR



FIGURE 1: TYPICAL D53 SERIES GAS PRESSURE REGULATOR

PRODUCT DESCRIPTION

The SERIES D53 regulators provide accurate pressure control in a variety of applications: natural gas systems, fuel gas supply to industrial boilers, furnaces and mixers; and commercial or industrial business such as steel mills, asphalt plants and shopping centers.

This Regulator is used with double stage pilot pressure loading. The superior performance of this regulator is due to the amplifying effect of the pilot and the two-path control system. Changes in outlet pressure act quickly on the actuator diaphragm to provide fast response to changes. The pilot amplifies system changes, positioning the main valve for precise control.

These regulators can be provided with built-in Slam Shut Off device having over and under pressure shut-off. These regulators have Fail-Open and Fail-Close configuration.

TECHNICAL SPECIFICATION

Body Size & Connections: Flanged: 1", 2", 3", 4", 6", 8", 10" & 12" ANSI B16.5 Class 150#, 300# & 600#
(Higher sizes & ratings on request)

Model Configurations: As per Table 2 & Table 3.

Accuracy Class AC: Upto 1.0 (according to EN-334)

Lock-up pressure Zone class SZ: Upto 2.5

Max. Inlet Pressure:
20 Barg for ANSI B16.5 150#
50 Barg for ANSI B16.5 300#
100 Barg for ANSI B16.5 600#

Temperature Capabilities: -20° C to 60° C (Extended temperature ranges available on request)

Pressure registration: External 3/8" NPTF

Pressure Setting Adjustment: May be adjusted throughout a spring range by turning the adjusting screw of pilot.

Material of Construction:

Body: A216 Gr. WCB (Standard 150#), A352 Gr. LCB (Standard 300# & 600#), A352 Gr. LCC, A351 CF8, A351 CF8M.

Diaphragm Casing:

Valve Size	Material
1" & 2"	A350 Gr. LF2
3", 4", 6", 8", 10" & 12"	A216 Gr. WCB A352 Gr. LCB A352 Gr. LCC A351 Gr. CF8 A351 Gr. CF8M

Internal Trim Parts: A479 Gr.SS316, A479 Gr.SS304, SS316L, SS304L,
Copper, Brass

*NACE and Special material available on request.

Disc & Diaphragm: Nitrile (standard) & Others on request

External Dimensions & Weights: Refer Table 4 & Table 5.

CERTIFICATIONS:

✓ **PED 2014/68/EU compliance (CE):**

Cert. no: CE-0062-PED-B3.1-NIC 001-18-IND

Cert. no: CE-0062-PED-H-NIC 001-20-IND

✓ **EN 334 Certification:**

Cert. no: CE-PED-B-NIC 001-15-IND

✓ **TRCU Certification (EAC):**

(For supply to Russia, Kazakhstan and Belarus)

Cert. no: RU C-IN.HA10.B.00363

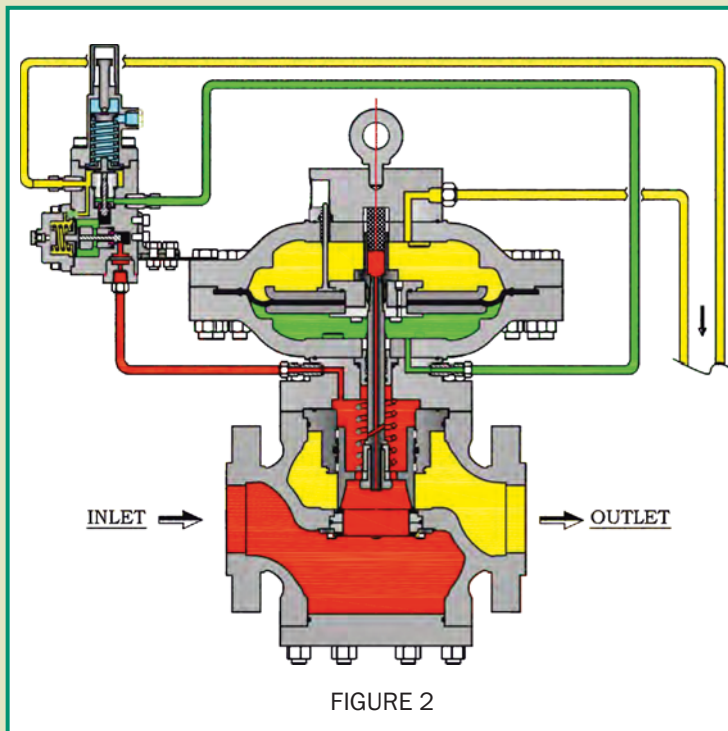
PRODUCT HIGHLIGHTS

- **Tight Shut-Off Capability:** Special trim design eliminates wear and erosion of seating, provides excellent tight shut off capability over long working life.
- **Active Monitor Configuration Suitability:** This model is suitable for use as Active monitor configuration.
- **Double Stage Pilot Control:** With help of double stage pilot design, these regulators can handle high variations in inlet pressure without affecting the accuracy of outlet controlled pressure.
- **Easy To Maintain:** Sturdy and compact design with minimum number of moving parts. Actuator internals, Valve disc and trim parts can be replaced without removing the regulator from pipe line.
- **Local Position Indicator:** Position indicator is built in feature for indicating trim movement. Optionally position transmitter can be mounted for position feedback at remote location.
- **Built in Slam Shut Off Option available:** Built-in Slam Shut Off (with OPSO & UPSO) can be provided as an optional feature. SSV can be provided with local position indicators & limit switches for remote feedback.

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SERIES D53 (FAIL-CLOSE TYPE) REGULATOR



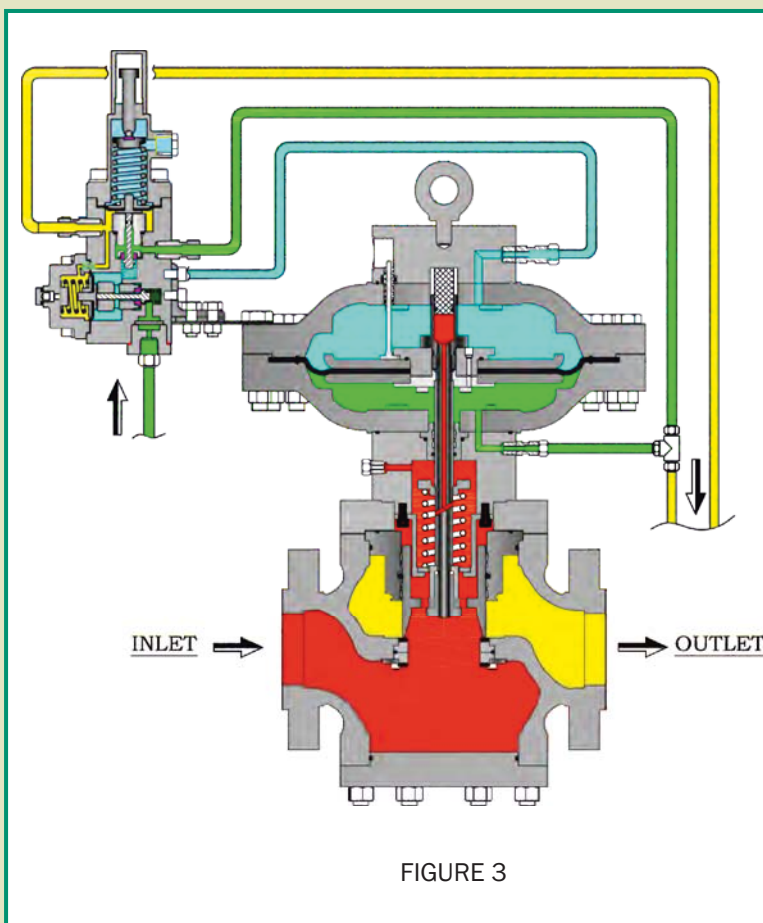
OPERATING PRINCIPLE – FAIL CLOSE TYPE

In the absence of the pressure in the system, the valve is kept in closed condition by the action of spring, which keeps the valve pressed against the plug assembly. This is independent of inlet pressure since the valve is fully balanced.

If downstream pressure drops during operation because of an increase in requested flow, the pilot compares the variation of outlet pressure, sensed by its diaphragm.

If the outlet pressure is lower than the set point, the pilot will supply the lower chamber of the main valve. Thus the pressure in the lower chamber of main valve will be larger than the upper chamber; therefore the main valve will open allowing gas flow until it achieves the pressure set point. As soon as the pressure set point achieved, the main valve keeps this position. The response speed of valve is controlled by restricting nozzle, which is installed in diaphragm plate assembly. The desired control pressure is adjusted through set screw of NP1 pilot.

SERIES D53 (FAIL-OPEN TYPE) REGULATOR



OPERATING PRINCIPLE – FAIL OPEN TYPE

If there is no pressure, the valve is kept in a fully open position by mean of spring force. The valve stem & trims are fully balanced. The pressure that modify the main valve position & thus control flow, is feed by the first stage of pilot that reduces the pressure slightly higher to outlet pressure and communicate this pressure directly to the pilot input and main regulator diaphragm.

Il stage of pilot controls the pressure variation over the diaphragm of the main regulator as per consequence. The position of main regulator valve compares the outlet pressure under pilot diaphragm with the spring load over it.

If there is a drop in outlet pressure, the pilot increases pressure below the main diaphragm in order to increase the opening of main valve and restore the set value. On the contrary, if the outlet pressure begins to rise, the force exercised on the pilot diaphragm moves it in the upward direction and due to the bottom spring force, the piston moves towards the seat so as to get closed, so that the pressure below the main regulator diaphragm decreases by flowing through the orifice to the downstream and pressure on the main valve diaphragm is higher which is supplied by first stage pilot valve, causing the diaphragm assembly to move downward, thus restoring the set pressure.

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ACTIVE MONITOR CONFIGURATION

In this configuration the monitor is installed upstream of the Main (Active) regulator and is set higher than the main regulator.

Although their roles are different, the two regulators are virtually identical from the point of view of their mechanical construction. The only difference is that the monitor is set at a higher pressure than the main active regulator.

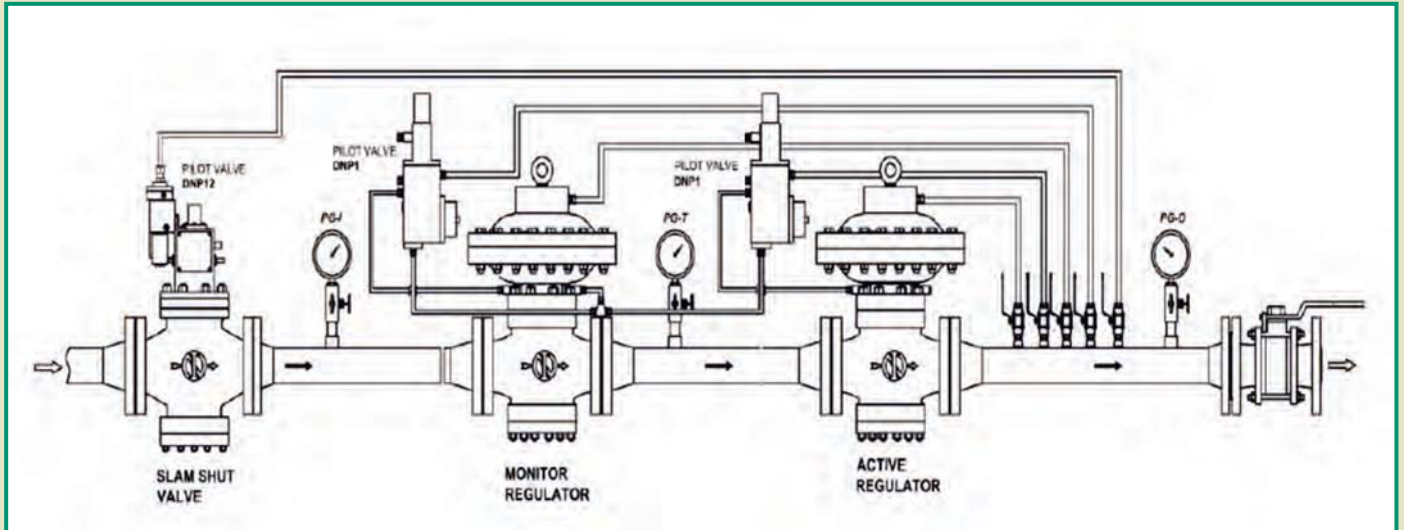
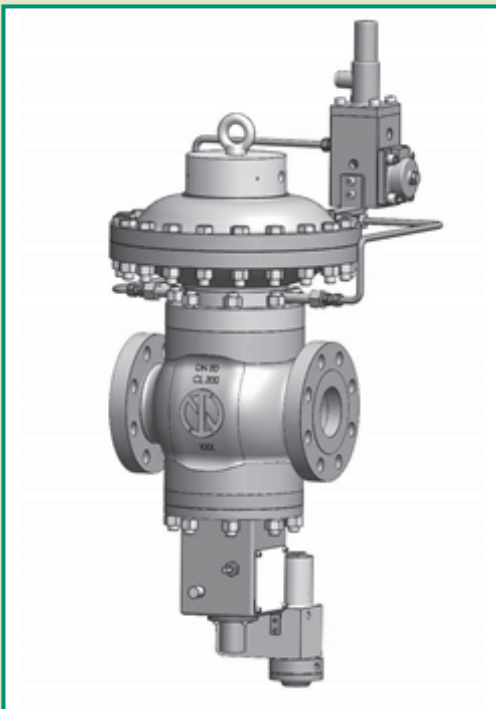


FIGURE 4

Normally, monitor remains wide open and active regulator regulates the outlet pressure at its set value. If in case of contingency, controlled pressure tends to rise, Monitor regulator takes over and regulates the controlled pressure at its set value, which is marginally higher than that of Active regulator.



SERIES D53 REGULATOR WITH BUILT-IN SLAM SHUT DEVICE

Series D53 pressure regulator offers the possibility of installing an incorporated slam shut off device whenever it is functioning either as a main or as a monitor regulator.

The incorporated slam shut off device can be retrofitted to SERIES D53 regulator without modifying the pressure reduction assembly. Thus all the specifications are same as that of SERIES D53 regulator.

SLAM SHUT OFF

This device cuts off the gas flow if any failure causes the downstream pressure to rise and reach the set point of the slam shut itself. The slam shut off device can be reset manually.

FIGURE 5: TYPICAL D53 SERIES GAS PRESSURE REGULATOR WITH INBUILT SLAM SHUT OFF VALVE

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KEY FEATURES

- **Accuracy Group AG :** Up to 1 (According to EN 14382)
- **Tight Shut Off Capability :** Special trim design eliminates wear and erosion of seating, providing excellent tight shut off capability over long working life.
- **Easy to Maintain :** Easy replacement of internal parts without dismantling the main regulator from line.
- **Manual Re-setting :** Manual re-setting with the lever mechanism.
- **Built in Pressure Equalization :** On slight turning of reset lever, a small opening in valve equalizes inlet and outlet pressure. No separate by-pass or equalizing valve is required.
- **Local Position Indication :** Open/Close position indicator dial indicates slam shut device position.
- **Remote Signal Device Option :** Slam shut off can be provided with remote signal devices (like contact switches or proximity switches).
- **Inbuilt Slam shut off** available up to 4" valve size with D53 Series Pressure Regulator

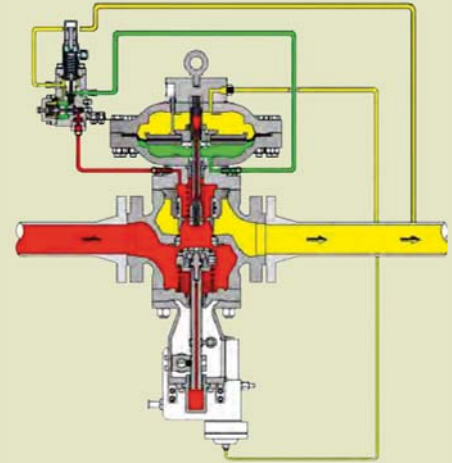


FIGURE 6

- INLET PRESSURE
- OUTLET PRESSURE
- LOADING PRESSURE

SERIES D53 WITH IN-BUILT SAFETY SHUT OFF DEVICE INSTALLATION

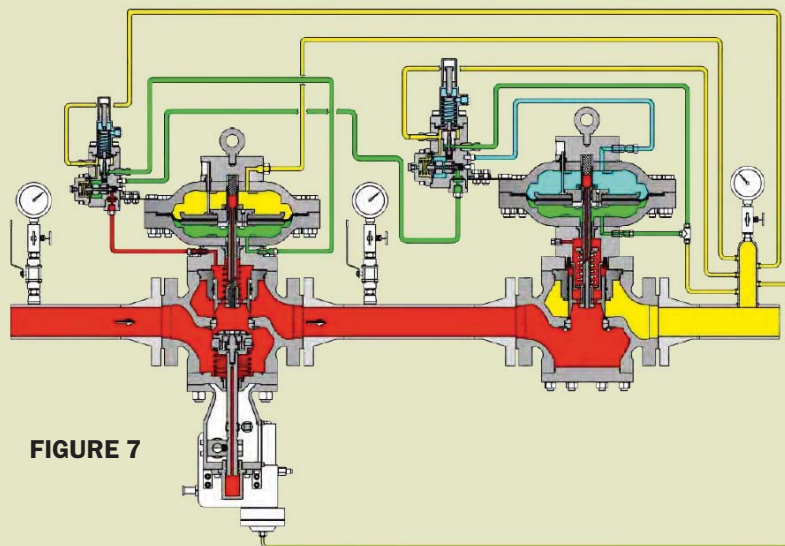


FIGURE 7

CAPACITY / SIZING CALCULATIONS

To find out the regulating flow capacity, use equation
For $\Delta P < 0.5 P_u$ (sub-critical condition)

$$Q = \frac{13.57}{\sqrt{d(t_u+273)}} \times C_g \sqrt{P_d(P_u-P_d)}$$

For $\Delta P > 0.5 P_u$ (critical condition)

$$Q = \frac{13.57}{\sqrt{d(t_u+273)}} \times C_g \frac{P_u}{2}$$

Where;

- Q = Flow in Normal m³/Hr
- P_u = Inlet Pressure in Bar Abs.
- P_d = Regulator Set Pressure in Bar Abs.
- d = Specific Gravity of Gas w.r.t. air
- t_u = Temperature at the inlet in °C
- C_g = Flow Coefficient
- ΔP = Differential Pressure (P_u - P_d)

TABLE 1: Flow Coefficients

Valve Size (DN)	1" (DN 25)	2" (DN 50)	3" (DN 80)	4" (DN 100)	6" (DN 150)	8" (DN 200)	10" (DN 250)	12" (DN 300)
C _g Valve (Regulator)	550	2200	4800	7840	16400	26000	36000	42400

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TABLE 2: SERIES D53 MODEL CONFIGURATION

Model	
PRV-EN STD. REQUIRED	<input type="checkbox"/>
PRV-EN STD. NOT REQUIRED	<input type="checkbox"/>
PRV-FAIL OPEN EN STD. REQUIRED	<input type="checkbox"/>
PRV-FAIL OPEN EN STD. NOT REQUIRED	<input type="checkbox"/>

Set Pressure range	
0.5 – 2.0 Barg.	<input type="checkbox"/>
1.5 – 6.0 Barg.	<input type="checkbox"/>
4.0 – 18.0 Barg.	<input type="checkbox"/>
10.0 – 30.0 Barg.	<input type="checkbox"/>
25.0 – 50.0 Barg.	<input type="checkbox"/>
30.0 – 60.0 Barg.	<input type="checkbox"/>
45.0 – 80.0 Barg.	<input type="checkbox"/>
Others *	<input type="checkbox"/>

Regulator Size	
25 NB	<input type="checkbox"/>
50 NB	<input type="checkbox"/>
80 NB	<input type="checkbox"/>
100 NB	<input type="checkbox"/>
150 NB	<input type="checkbox"/>
200 NB	<input type="checkbox"/>
250 NB	<input type="checkbox"/>
300 NB	<input type="checkbox"/>
Others*	<input type="checkbox"/>

Ratings	
Flanged End ANSI B16.5 150#	<input type="checkbox"/>
Flanged End ANSI B16.5 300#	<input type="checkbox"/>
Flanged End ANSI B16.5 600#	<input type="checkbox"/>

MATERIAL OF CONSTRUCTION					
Body		Trim		Polymers	
A216 Gr. WCB (Standard-150#)	<input type="checkbox"/>	A479 Gr. SS316 (Standard)	<input type="checkbox"/>	N i t r i l e	
A352 Gr. LCB (Standard-300# & 600#)	<input type="checkbox"/>	A479 Gr. SS304	<input type="checkbox"/>	(Standard)	<input type="checkbox"/>
A352 Gr. LCC	<input type="checkbox"/>	Others*	<input type="checkbox"/>		
Others*	<input type="checkbox"/>				

Special Requirement	
NACE	<input type="checkbox"/>
Radiography casting body	<input type="checkbox"/>
None	<input type="checkbox"/>

Certifications	
EN334	<input type="checkbox"/>
PED-2014/68/EU	<input type="checkbox"/>
CE Marking	<input type="checkbox"/>

Note: * 'Others' option to be specified by the Customer / Client.

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Table 3: SERIES D53 PRV + SSV MODEL CONFIGURATION

Function	
PRV+SSV (OPSO)-EN	<input type="checkbox"/>
PRV+SSV (UPSO+OPSO)-EN	<input type="checkbox"/>
PRV+SSV -With Limit Switch (OPSO)-EN	<input type="checkbox"/>
PRV+SSV - With Limit Switch (UPSO+OPSO)-EN	<input type="checkbox"/>
PRV+SSV (OPSO)	<input type="checkbox"/>
PRV+SSV (UPSO+OPSO)	<input type="checkbox"/>
PRV+SSV - With Limit Switch (OPSO)	<input type="checkbox"/>
PRV+SSV - With Limit Switch (UPSO+OPSO)	<input type="checkbox"/>

Regulator : Set Pressure Ranges	
0.5 to 2.0 Barg.	<input type="checkbox"/>
1.5 to 6.0 Barg.	<input type="checkbox"/>
4.0 to 18.0 Barg.	<input type="checkbox"/>
10.0 to 30.0 Barg.	<input type="checkbox"/>
25.0 to 50.0 Barg.	<input type="checkbox"/>
30.0 to 60.0 Barg.	<input type="checkbox"/>
45.0 to 80.0 Barg.	<input type="checkbox"/>
Others *	<input type="checkbox"/>

Regulator Sizes	
25NB	<input type="checkbox"/>
50NB	<input type="checkbox"/>
80NB	<input type="checkbox"/>
100NB	<input type="checkbox"/>
Others *	<input type="checkbox"/>

Ratings	
Flanged End ANSI B16.5 150#	<input type="checkbox"/>
Flanged End ANSI B16.5 300#	<input type="checkbox"/>
Flanged End ANSI B16.5 600#	<input type="checkbox"/>

Inbuilt Slam Shut-Off Valve (OPSO & UPSO) Set Pressure Ranges			
PILOT TYPE NP12		PILOT TYPE NP13	
OPSO	UPSO	OPSO	UPSO
1.0 Barg. - 3.0 Barg. <input type="checkbox"/>	0.4 Barg. - 1.2 Barg. <input type="checkbox"/>	3.2 Barg. - 8.0 Barg. <input type="checkbox"/>	1.6 Barg. - 4.0 Barg. <input type="checkbox"/>
2.0 Barg. - 5.0 Barg. <input type="checkbox"/>	0.9 Barg. - 2.0 Barg. <input type="checkbox"/>	6.0 Barg. - 10.8 Barg. <input type="checkbox"/>	3.0 Barg. - 5.4 Barg. <input type="checkbox"/>
3.5 Barg. - 8.5 Barg. <input type="checkbox"/>	1.7 Barg. - 2.7 Barg. <input type="checkbox"/>	9.2 Barg. - 16.0 Barg. <input type="checkbox"/>	4.6 Barg. - 8.0 Barg. <input type="checkbox"/>
6.5 Barg. - 10.5 Barg. <input type="checkbox"/>	2.4 Barg. - 4.0 Barg. <input type="checkbox"/>	15.0 Barg. - 30.0 Barg. <input type="checkbox"/>	7.0 Barg. - 15.0 Barg. <input type="checkbox"/>
8.0 Barg. - 15.0 Barg. <input type="checkbox"/>		23.0 Barg. - 33.0 Barg. <input type="checkbox"/>	13.0 Barg. - 20.0 Barg. <input type="checkbox"/>
13.0 Barg. - 16.5 Barg. <input type="checkbox"/>		31.0 Barg. - 44.0 Barg. <input type="checkbox"/>	18.0 Barg. - 28.0 Barg. <input type="checkbox"/>
15.0 Barg. - 22.0 Barg. <input type="checkbox"/>			26.0 Barg. - 44.0 Barg. <input type="checkbox"/>
PILOT TYPE NP14		PILOT TYPE NP15	
OPSO	UPSO	OPSO	UPSO
0.15 Barg. - 1.2 Barg. <input type="checkbox"/>	30.0 mBarg. - 260.0 mBarg. <input type="checkbox"/>	30.0 Barg. - 60.0 Barg. <input type="checkbox"/>	3.2 Barg. - 8.0 Barg. <input type="checkbox"/>
0.5 Barg. - 2.2 Barg. <input type="checkbox"/>	60.0 mBarg. - 330.0 mBarg. <input type="checkbox"/>	45.0 Barg. - 66.0 Barg. <input type="checkbox"/>	6.5 Barg. - 10.8 Barg. <input type="checkbox"/>
	150.0 mBarg. - 650.0 mBarg. <input type="checkbox"/>	62.0 Barg. - 88.0 Barg. <input type="checkbox"/>	9.2 Barg. - 16.0 Barg. <input type="checkbox"/>
	100.0 mBarg. - 900.0 mBarg. <input type="checkbox"/>		14.0 Barg. - 30.0 Barg. <input type="checkbox"/>
			26.0 Barg. - 40.0 Barg. <input type="checkbox"/>
			38.0 Barg. - 56.0 Barg. <input type="checkbox"/>
			54.0 Barg. - 70.0 Barg. <input type="checkbox"/>
NOTE:			
• OPSO : Over Pressure Shut-Off ; UPSO : Under Pressure Shut-Off			
• OPSO & UPSO Set Pressure Ranges shall be selected such that it belongs to same pilot type.			

MATERIAL OF CONSTRUCTION		
Body	Trim	Polymers
A216 Gr. WCB (Standard-150#) <input type="checkbox"/>	A479 Gr. SS316 (Standard) <input type="checkbox"/>	N i t r i l e
A352 Gr. LCB (Standard-300# & 600#) <input type="checkbox"/>	A479 Gr. SS304 <input type="checkbox"/>	(Standard) <input type="checkbox"/>
A352 Gr. LCC <input type="checkbox"/>	Others* <input type="checkbox"/>	
Others* <input type="checkbox"/>		

Special Requirement	
None	<input type="checkbox"/>
NACE	<input type="checkbox"/>
Radiography casting body	<input type="checkbox"/>
In-Built PG	<input type="checkbox"/>

Certifications	
EN334 + EN14382	<input type="checkbox"/>
PED-2014/68/EU	<input type="checkbox"/>
CE Making	<input type="checkbox"/>

Note: * 'Others' option to be specified by the Customer / Client.

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Table 4: Dimensions & Weights SERIES D53 Gas Pressure Regulator – (FAIL CLOSE TYPE)

ANSI 150#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	498	108	184	95	79.4	16	4	375	43.0
2" (50NB)	535	152.2	254	132	120.6	19	4	375	58.0
3" (80NB)	638	190.4	298	166	152.4	19	4	560	92.0
4" (100NB)	690	228.6	352	190	190.5	19	8	578	132.0
6" (150NB)	950	279.4	451	255	241.3	22.2	8	600	312.0
8" (200NB)	1300	342.9	543	330	298.4	22.2	8	770	940.0
10" (250NB)	1400	406.4	673	350	361.95	25.4	12	850	960.0
12" (300NB)	1580	482.6	737	430	431.8	25.4	12	950	1128.0

ANSI 300#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	498	123.6	197	95	89	19	4	375	48.0
2" (50NB)	535	165	267	132	127	19	8	375	62.0
3" (80NB)	638	209.5	317	166	168.3	22.2	8	560	106.0
4" (100NB)	690	254	368	190	200.1	22.2	8	578	160.0
6" (150NB)	950	317.5	473	255	269.7	22.2	12	600	340.0
8" (200NB)	1300	381	568	330	330.2	25.4	12	770	960.0
10" (250NB)	1400	444.5	708	350	387.3	28.5	16	850	990.0
12" (300NB)	1580	520.7	775	430	450.8	31.7	16	950	1300.0

ANSI 600#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	498	124	210	95	88.9	19	4	375	53.0
2" (50NB)	535	165	286	132	127	19	8	375	68.0
3" (80NB)	638	209.5	337	166	168.1	22.2	8	560	116.0
4" (100NB)	690	273	394	190	215.9	25	8	578	172.0
6" (150NB)	950	355.6	508	255	292.1	28.5	12	600	362.0
8" (200NB)	1300	419.1	610	330	349.3	25.4	12	770	980.0
10" (250NB)	1400	508	752	350	431.8	34.9	16	850	1084.0
12" (300NB)	1580	558.8	819	430	488.9	34.9	20	950	1492.0

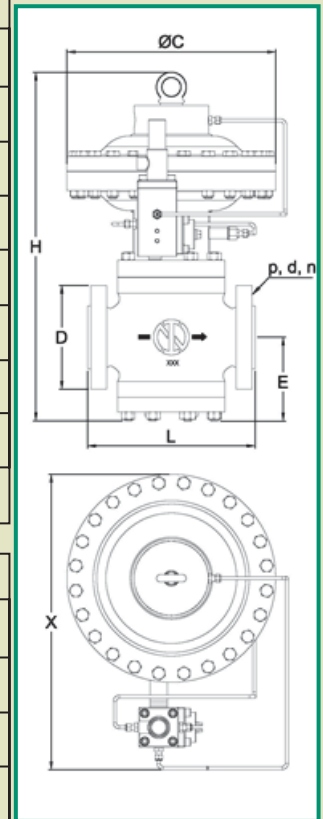


FIGURE 8

NOTES

- All dimensions are in 'mm'
- Weights in 'Kg'.
- n = Number of holes
- Face to face dimensions are as per EN 334 Standard

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Table 5:
Dimensions & Weights SERIES D53 Regulator with Built-in Slam Shut Device – (FAIL CLOSE TYPE)

ANSI 150#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	658	108	184	380	79.4	16	4	375	48.0
2" (50NB)	672	152.2	254	420	120.6	19	4	375	65.0
3" (80NB)	930	190.4	298	475	152.4	19	4	560	98.0
4" (100NB)	948	228.6	352	500	190.5	19	8	578	148.0

ANSI 300#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	658	123.6	197	380	89	19	4	375	53.0
2" (50NB)	672	165	267	420	127	19	8	375	73.0
3" (80NB)	930	209.5	317	475	168.3	22.2	8	560	118.0
4" (100NB)	948	254	368	500	200.1	22.2	8	578	168.0

ANSI 600#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	658	124	210	380	88.9	19	4	375	55.0
2" (50NB)	672	165	286	420	127	19	8	375	75.0
3" (80NB)	930	209.5	337	475	168.1	22.2	8	560	126.0
4" (100NB)	948	273	394	500	215.9	25	8	578	180.0

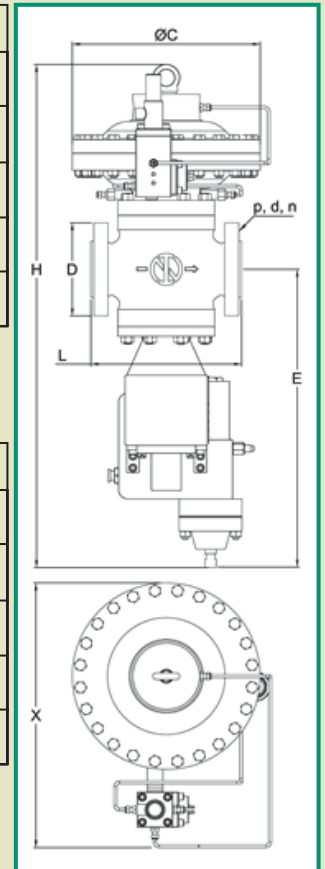


FIGURE 9

NOTES:

- All dimensions are in 'mm'
- Weights in 'Kg'.
- Face to face dimensions are as per EN 334 Standard
- n = Number of holes

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Table 6: Dimensions & Weights SERIES D53 Gas Pressure Regulator – (FAIL OPEN TYPE)

ANSI 150#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	550	108	184	95	79.4	16	4	375	42.0
2" (50NB)	597	152.2	254	132	120.6	19	4	375	59.0
3" (80NB)	684	190.4	298	166	152.4	19	4	560	105.0
4" (100NB)	733	228.6	352	190	190.5	19	8	578	142.0
6" (150NB)	1030	279.4	451	255	241.3	22.2	8	600	310.0
8" (200NB)	1500	342.9	543	330	298.4	22.2	8	770	1100
10" (250NB)	1620	406.4	673	350	361.95	25.4	12	850	1230.0
12" (300NB)	1750	482.6	737	430	431.8	25.4	12	950	1386.0

ANSI 300#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	550	123.6	197	95	89	19	4	375	43.0
2" (50NB)	597	165	267	132	127	19	8	375	62.0
3" (80NB)	684	209.5	317	166	168.3	22.2	8	560	110.0
4" (100NB)	733	254	368	190	200.1	22.2	8	578	154.0
6" (150NB)	1030	317.5	473	255	269.7	22.2	12	600	346.0
8" (200NB)	1500	381	568	330	330.2	25.4	12	770	1300.0
10" (250NB)	1620	444.5	708	350	387.3	28.5	16	850	1450.0
12" (300NB)	1750	520.7	775	430	450.8	31.7	16	950	1560.0

ANSI 600#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	550	124	210	95	88.9	19	4	375	46.0
2" (50NB)	597	165	286	132	127	19	8	375	63.0
3" (80NB)	684	209.5	337	166	168.1	22.2	8	560	110.0
4" (100NB)	733	273	394	190	215.9	25	8	578	168.0
6" (150NB)	1030	355.6	508	255	292.1	28.5	12	600	360.0
8" (200NB)	1500	419.1	610	330	349.3	25.4	12	770	1450.0
10" (250NB)	1620	508	752	350	431.8	34.9	16	850	1530.0
12" (300NB)	1750	558.8	819	430	488.9	34.9	20	950	1600.0

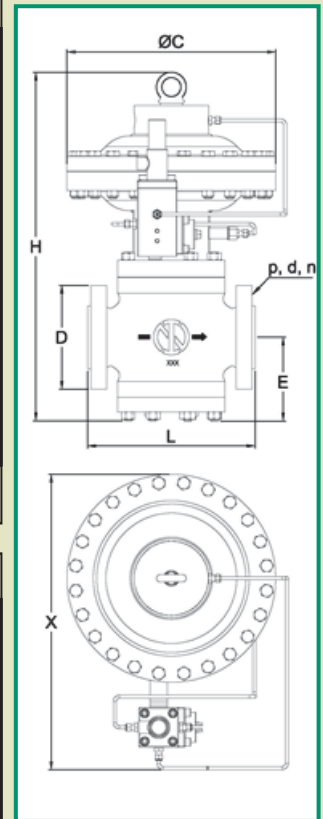


FIGURE 10

NOTES

- All dimensions are in 'mm'
- Weights in 'Kg'.
- n = Number of holes
- Face to face dimensions are as per EN 334 Standard

SERIES D53

GAS PRESSURE REGULATOR

Table 7:
Dimensions & Weights SERIES D53 Regulator with Built-in Slam Shut Device – (FAIL OPEN TYPE)

ANSI 150#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	710	108	184	380	79.4	16	4	375	50.0
2" (50NB)	734	152.2	254	420	120.6	19	4	375	72.0
3" (80NB)	976	190.4	298	475	152.4	19	4	560	113.0
4" (100NB)	991	228.6	352	500	190.5	19	8	578	155.0

ANSI 300#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	710	123.6	197	380	89	19	4	375	52.0
2" (50NB)	734	165	267	420	127	19	8	375	74.0
3" (80NB)	976	209.5	317	475	168.3	22.2	8	560	120.0
4" (100NB)	991	254	368	500	200.1	22.2	8	578	170.0

ANSI 600#									
VALVE SIZE	H(MAX)	Ø D	L	E	p	d	n	X	Weight
1" (25NB)	710	124	210	380	88.9	19	4	375	55.0
2" (50NB)	734	165	286	420	127	19	8	375	75.0
3" (80NB)	976	209.5	337	475	168.3	22.2	8	560	124.0
4" (100NB)	991	273	394	500	215.9	25	8	578	182.0

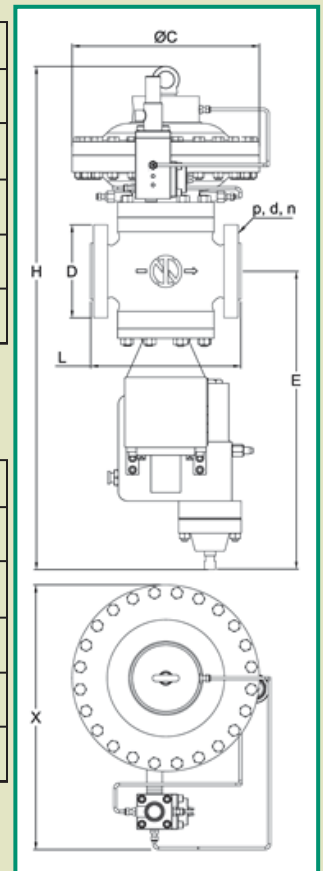


FIGURE 11

NOTES:

- All dimensions are in 'mm'
- Weights in 'Kg'.
- Face to face dimensions are as per EN 334 Standard
- n = Number of holes

• ENQUIRY SPECIFICATION •

- INLET PRESSURE
- OUTLET PRESSURE
- LINE SIZE & RATING
- SPECIFIC GRAVITY
- INTERNALS MOC
- SERVICE FLUID
- FLOW MIN. / MAX.
- MAX. TEMP.
- BODY MOC
- PERMISSIBLE DROOP

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