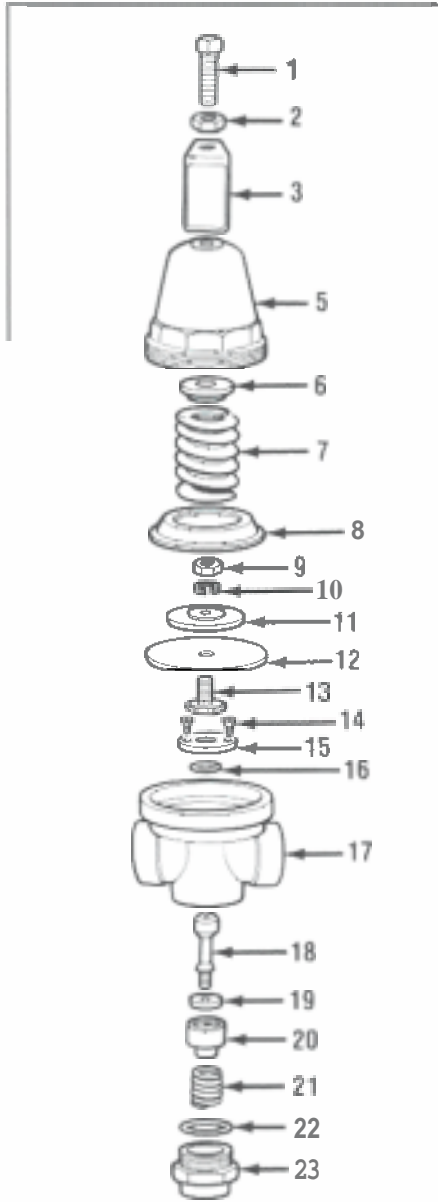




TECHSPEC



- | | |
|-----------------------|---------------------------|
| 1. Adjusting Screw | 13. Pusher Post Button |
| 2. Lock Nut | 14. Retainer Plats Screws |
| 3. Identification Tag | 15. Retainer Plate |
| 5. Spring Chamber | 16. O-Ring (Top) |
| 6. Spring Button | 17. Body |
| 7. Pressure Spring | 18. Pusher Post |
| 8. Diaphragm Stop | 19. Seat Disc |
| 9. Pressure Plate Nut | 20. Piston |
| 10. Lock Washer | 21. Piston Spring |
| 11. Pressure Plate | 22. O-Ring (Bottom) |
| 12. Diaphragm | 23. Bottom Plug |

DESCRIPTION

Types A-360, A-360B, A-361, and A-361B pressure reducing and regulating valves automatically reduce a high inlet pressure to a lower delivery pressure and maintain that lower pressure within reasonably close limits, even during high flow rates. Types A360 and A360B are 2-way; Types A361 and A361B are 4-way with gauge taps on sides of body.

SPECIFICATION DATA

Service: Air, water, oil, gases (except steam), and non-corrosive liquids
Sizes: 1/4", 3/8", and 1/2"
Connections: Threaded female inlet and outlet. A-361 has side gauge connections
Body: Forged brass-A360
 Cast Bronze-A361, A361B
Maximum Temperature: 180°F
Maximum Initial Pressure: 400 psi
Outlet Pressure Range: 0-250 psi
Capacity: Refer to bulletin PRV-A for capacity information,

GENERAL INSTALLATION INSTRUCTIONS

Types A-360 and A-361 regulators can be installed in any position. For ease of maintenance and repair however, it is suggested that the valve be installed in a horizontal line with the spring chamber upright. For convenient operation and maintenance, manual shut-off valves should be installed upstream and downstream from the valve. Before installing the valve, the piping should be thoroughly flushed out to remove any foreign material. Install the valve with the inlet pipe in proper relationship to the flow arrow stamped on the valve body.

OPERATING INSTRUCTIONS

Adjusting the Delivery Pressure

The regulator's delivery pressure setting is adjusted by turning the adjusting screw (1) at the top of the spring chamber after loosening the adjusting screw lock nut (2). To increase the delivery pressure, turn the adjusting screw clockwise (into the spring chamber). To decrease the delivery pressure, turn the adjusting screw counter-clockwise (out of the spring chamber). Tighten the adjusting screw lock nut after the adjustment has been made.

NOTE: When adjusting the delivery pressure, draw flow and shut off downstream to check pressure set.



Type A-360 A-360B Type A-361 A-361B

PRESSURE REGULATORS

This Bulletin No.	TS-A360
Date Of This Issue	MARCH 2000
Supersedes Bulletin No.	TS-A360
Dated	JULY 1999

MAINTENANCE INSTRUCTIONS

The following procedures are provided for servicing the recommended spare parts for the types A-360 and A-361 regulators. Repair parts can easily be installed without removing the regulator from the line.

CAUTION: Before attempting to replace any spare parts be sure to shut off all pressure connections to the valve. With the valve closed, however, system pressure could still be locked between the shut off valve and the inlet and/or outlet sides of the regulator. Before proceeding with any valve service be certain to relieve the pressure from BOTH sides of the regulator.

Refer to the A-360 regulator exploded view for parts identification.

Servicing the Diaphragm (12) and Top O-Ring

- Loosen the lock nut (2) 1/4 turn and turn the adjusting screw (1) counter-clockwise until the pressure spring (7) is no longer under tension.

INSTALLATION, MAINTENANCE & REPAIR PARTS INFORMATION

ISO 9001 Certified

NOTE: When installing the adjusting screw, turn the screw clockwise until the lock nut just touches the spring chamber. By following this procedure the pressure setting should be very close to the original setting.

1. Unscrew the spring chamber (5) from the valve body (17) and remove the chamber, spring button (6), pressure spring (7), and diaphragm stop (8).
2. The diaphragm assembly can now be lifted out of the valve body. To replace the diaphragm (12), remove the pressure plate nut (9) and lock washer (10) retaining the pressure plate (11) and diaphragm (12) to the pusher post button (13).
3. If the top O-ring (16) is to be serviced, remove the two retainer plate screws (14) and lift the retainer plate (15) out of the valve body. The top O-ring is now visible and can be easily lifted out of the valve body. Lubricate any new O-ring with Fiske Brothers Refining Company Lubriplate No. 907 or the equivalent before installing it into the valve body.
4. Reassemble the parts in reverse order. After placing the valve in service, readjust the delivery pressure setting as detailed in Adjusting the Delivery Pressure, under Operating Instructions.

Servicing the Pusher Post (18), Bleeder Valve (18A), Seat Disc (19), Piston (20), and Bottom O-Ring (22)

1. It is recommended that the load on the pressure spring (7) be relieved before attempting to service any parts through the bottom of the valve. Relieve the pressure spring tension as detailed in Step 1 under Servicing the Diaphragm (12) and Top O-Ring (16).
2. Unscrew the bottom plug (23) from the valve body (17) and remove the O-ring (22) from the bottom plug. Replace the O-ring if necessary. Any new O-ring should be lubricated with Fiske Brothers Lubriplate No. 907 or the equivalent.

3. Remove the piston spring (21) and the piston assembly from the bottom of the valve body. To replace any of the parts in the piston assembly, unscrew the pusher post (18) from the piston (20) and remove the seat disc (19). On Type A-3608 and A-361B regulators, also remove the bleeder valve (18A) from the pusher post.
4. Reassemble the parts in reverse order. After placing the valve in service, readjust the delivery pressure setting as outlined under Operating Instructions.

REPAIR PARTS INFORMATION

Refer to the regulator exploded view as shown on page 1 for parts identification.

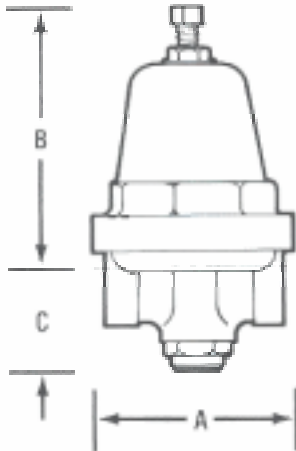
REF. NO.	DESCRIPTION	MATERIAL	PART NO.		NO. REQ'D.
			1/4", 3/8"	1/2"	
1	Adjusting Screw (Square Head)	St. Cad. Pl.	1628	1628	1
1	Adjusting Screw (T-Handle) Set	Brass	8256	8256	1
2	Lock Nut (Hex for Sq. Hd. Screw)	St. Cad. Pl.	1629	1629	1
2	Lock Nut (Hex for T-Handle)	St. Cad. Pl.	1336	1336	1
2	Lock Nut (Wing for Panel Mounting)	St. Cad. Pl.	5717	5717	1
3	Identification Tag	Aluminum	8353	8353	1
4	Bushing (for Panel Mounting only)	Brass	8282	8282	1
5	Spring Chamber (for Sq. Hd. Screw)	Brass	2151	2151	1
5	Spring Chamber (for T-Handle)	Brass	8280	8280	1
5	Spring Chamber (for Panel Mounting)	Brass	8281	8281	1
6	Spring Button	Brass	8225	8225	1
7	Pressure Spring (see Ranges chart)	302 S. St.	See Next Page		1
8	Diaphragm Stop	Brass	8243	8243	1
9	Pressure Plate Nut	St. Cad. Pl.	1353	1353	1
10	Lock Washer	Steel	8226	8226	1
11	Pressure Plate	Brass	8227	8227	1
12*	Diaphragm	Neoprene	8228	8228	1
13	Pusher Post Button (A-360, A-361)	Brass	8265	8265	1
13	Pusher Post Button (A-360B, A-361B)	Brass	8514	8514	1
14	Retainer Plate Screws	Brass	8266	8266	2
15	Retainer Plate	Brass	8267	8365	1
16*	O-Ring (Top)	Buna-N	8268	8664	1
17	Body (A-360 2 Way)	Brass	#	#	1
17	Body (A-361 3 or 4 Way)	Brass	#	#	1
18*	Pusher Post (A-360, A-361)	303 S. St.	8269	8367	1
18*	Pusher Post (A-360B, A-361B)	303 S. St.	8512	8499	1
18A	Bleeder Valve (A-360B, A-361B only)	303 S. St.	8513	8513	1
19*	Seat Disc	Buna-N	8270	2261	1
20*	Piston	Brass	8272	8369	1
21	Piston Spring	302 S. St.	9162	7079	1
22*	O-Ring (Bottom)	Buna-N	8273	8370	1
23	Bottom Plug	Brass	8274	8372	1

* Recommended Spare Parts

Specify valve size, Type A-360, A-3600, A-361 or A-3613 and it 2, 3 or 4 way.

SPECIFICATIONS

Each Type A-360, A-3600, A-367, or A-361B pressure regulator is equipped with a pressure spring selected to provide the desired outlet or reduced pressure setting. The range of adjustment or satisfactory "working range" of individual springs is shown below for each valve size. Every regulator has the "set" pressure and range of adjustment stamped on a tag fastened to the valve. The ranges shown below are recommended for best performance.



SPRING RANGES

SIZE	PARTS NUMBERS & RANGE OF ADJUSTMENT (in psi)					
	#10884	#8238	#8239	#8240	18241	#8242
1/4"	0-5	2-35	20-70	60-125	75-200	100-250
3/8"	0-5	2-35	20-70	60-125	75-200	100-250
1/2"	0-5	2-35	20-60	40-80	75-125	100-250

DIMENSIONS

TYPE	SIZE	DESCRIPTION	DIMENSIONS			SHIP. WT. (lbs.)
			A	B	C	
A-360, A-360B	1/4"	2-Way	2-1/2"	4-1/2"	1-1/8"	2
	3/8"	2-Way	2-1/2"	4-1/2"	1-1/8"	2
	1/2"	2-Way	2-7/8"	4-1/2"	1-5/8"	2-1/2
A-361, A-361B	1/4"	4-Way	2-1/2"	4-1/2"	1-1/8"	2-1/8
	3/8"	4-Way	2-1/2"	4-1/2"	1-1/8"	2-1/8
	1/2"	4-Way	2-7/8"	4-1/2"	1-5/8"	2-5/8

HOW TO ORDER

To order repair parts, refer to the exploded view of the Type A-360 to identify the part required. When ordering, please use the part names listed and provide the valve serial number stated on the identification tag. Also state the following:

- "Repair Parts for Type A-360, A-360B, A-361, or A-361B" and provide:
1. Valve size
 2. Service (air, water, oil, non-corrosive liquids, or gas)
 3. Inlet pressure

4. Outlet or delivery pressure range and setting
5. Part description
6. Quantity of each part
7. Valve assembly or serial number stated on the metal identification tag under the adjusting screw lock nut.



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