

## FIG 500 and FIG 542 VALVE ADJUSTING INSTRUCTIONS

**IMPORTANT:-** Alteration to the set pressure of a safety valve should only be carried out by a competent person, capable of assessing the consequences of the alteration, and thereafter accepting responsibility for the change. It is important to realise that where a safety valve is reset at a lower pressure, the capacity of the valve is also reduced.

### 1. EQUIPMENT REQUIRED

Fig 580 Safety Valve Set Pressure  
Adjusting Kit.

Fig.a



Spring(s), selected from appropriate spring chart enclosed (Order as required),

Test Equipment      (i)      Mounting for Safety Valve,  
                                 (ii)      Test gauge,  
                                 (iii)     Suitable pressure source.

### 2. PROCEDURE

- 1) Check the existing set pressure of the valve, by reference to the stamped setting on the nameplate. Check the colour of the spring through the bonnet vent hole to verify spring selection.
- 2) If the amended set pressure is within the range of the installed spring, proceed as from step 3. If reset pressure falls outside the range of the installed spring, proceed as from step 8.

3) Break and remove lead seal, slacken lever grub screw, as per Fig.b.

**Fig. b****Fig.c**

4) Remove the spring pin and remove the test lever and washer, as per fig.c

**Fig.d**

5) Slacken bonnet grub screw, as per fig.d

**Fig. e**

6) Adjust load using the appropriate adjusting key supplied with the kit, clockwise rotation will increase the set pressure, anticlockwise will reduce the set pressure, as per fig. e

**N.B. Do not reset outside range of individual spring – see spring charts.**

- 7) Having achieved desired set pressure, tighten up bonnet grub screw **carefully**, and re-check set pressure. Do not over tighten grub screw.
- 8) **IMPORTANT!** The amended set pressure must be stamped on the nameplate, replacing the original set pressure.
- 9) Re-assemble lever, washer and spring pin and tighten test lever grub screw.
- 10) If the amended set pressure is outside the installed spring range, obtain the correct spring, as indicated by the spring chart.
- 11) Follow steps 3 & 4, but remove all spring loads by anticlockwise rotation of the adjusting key.
- 12) Unscrew the bonnet, using the cast spanner flats. Do not use a pipe wrench, the machined piston bore may become distorted.
- 13) The spring may now be replaced by the correct range of spring, and the bonnet replaced securely but not over tightened.
- 14) Follow steps 4,5,6 and 7 to complete the resetting procedure

**WARNING!**

All components within one valve are matched. Do not mix with other parts. The lead seal fitted when the valve is new is impressed with the logo of NABIC. Breaking this seal will absolve from responsibility for the subsequent performance of the valve.

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**SPRING TABLE - FIG 500 SERIES - CHROME VANADIUM**

SPRING SIZE		1	2	3	4	5	6	7	8
VALVE SIZE (DN)		10	15	20	25	32	40	50	65
White	5~9	NP3010	NP3090	NP3170	NP3250	NP3330	NP3410	NP3490	NP3570
Red	10 ~ 19	NP3020	NP3100	NP3180	NP3260	NP3340	NP3420	NP3500	NP3580
Yellow	20 ~ 39	NP3030	NP3110	NP3190	NP3270	NP3350	NP3430	NP3510	NP3590
Green	40 ~ 59	NP3040	NP3120	NP3200	NP3280	NP3360	NP3440	NP3520	NP3600
Brown	60 ~ 89	NP3050	NP3130	NP3210	NP3290	NP3370	NP3450	NP3530	NP3610
Blue	90 ~ 119	NP3060	NP3140	NP3220	NP3300	NP3380	NP3460	NP3540	NP3620
Purple	120 ~ 149	NP3070	NP3150	NP3230	NP3310	NP3390	NP3470	NP3550	NP3630
Black	150 ~ 180	NP3080	NP3160	NP3240	NP3320	NP3400	NP3480	NP3560	NP3640
COLOUR	RANGE PSI	SPRING PART NUMBER							

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**SPRING TABLE - FIG 542 SERIES - CHROME VANADIUM**

SPRING SIZE		1	2	3	4	5	6	7	8
VALVE SIZE (DN)		15	20	25	32	40	50	65	80
White	4 ~ 7	NP3010	NP3090	NP3170	NP3250	NP3330	NP3410	NP3490	NP3570
Red	8 ~ 15	NP3020	NP3100	NP3180	NP3260	NP3340	NP3420	NP3500	NP3580
Yellow	16 ~ 31	NP3030	NP3110	NP3190	NP3270	NP3350	NP3430	NP3510	NP3590
Green	32 ~ 47	NP3040	NP3120	NP3200	NP3280	NP3360	NP3440	NP3520	NP3600
Brown	48 ~ 71	NP3050	NP3130	NP3210	NP3290	NP3370	NP3450	NP3530	NP3610
Blue	72 ~ 95	NP3060	NP3140	NP3220	NP3300	NP3380	NP3460	NP3540	NP3620
Purple	96 ~ 119	NP3070	NP3150	NP3230	NP3310	NP3390	NP3470	NP3550	NP3630
Black	120 ~ 152	NP3080	NP3160	NP3240	NP3320	NP3400	NP3480	NP3560	NP3640
COLOUR	RANGE PSI	SPRING PART NUMBER							