

## Series 9130 Mixing/Diverting Seated 3-Way Valves for ANSI 150-600 DIN/BS 4504 PN10-PN40

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Specification

## Series 9130 Mixing / Diverting Seated 3-Way Valves for ANSI 150-600 DIN/BS 4504 PN10-PN40

### Series 9130 Features

#### General

Three-way type control valves are used for controlling the fluids mutually to three directional piping, i.e. mixing and diverting service valve body with valve size 65mm or less is applied to diverting service.

The actuator is designed compactly as multi-spring diaphragm operated type, and permit high thrust.

#### Performance:

- High Cv to body size ratio.
- Streamlined flow passages to optimize capacity.
- High Cv to valve weight ratio.
- Excellent flow control rangeability.

#### Design Flexibility:

- Modular construction design available with a range of different connections and styles.
- All trim components removable from the top for easy of maintenance.
- Wide range of supplementary noise control options.
- Inherently characterized trim offered in equal percentage, linear, quick opening and modified -parabolic (options).
- Multi trim sizes available.
- Full range of body and trim material options.
- Fully rationalized and interchangeable features.
- Full range of bonnet and packing designs to suit various temperatures and fluids.



Figure 1.  
Series 9130 Valve incorporating Contoured Trim and  
complete with Series 6100 Actuator

### 3-Way Valve Specifications

Valve Type	Diaphragm Operated 3-way Control Valve													
Valve Model	Series 9130													
Body Type	Mixing / Diverting													
Valve Size (inch)	1/2	3/4	1	1.1/2	2	2.1/2	3	4	5	6	8	10	12	14
(mm)	15	20	25	40	50	65	80	100	125	150	200	250	300	350
Pressure Rating	ANSI 150# ~ 600# (JIS 10K ~ 30K, PN 10~ 40)													
End Connection	RF, FF, SW, BW, RTJ													
Body Materials	A216WCB, A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on													
Bonnet Type	Plain(-17°C to 230°C), Extension(-45°C to -17°C, over 230°C), Cryogenic(-196°C to -45°C)													
Packing	Graphite foil, Carbon fiber, Teflon fiber													
Gasket	Spiral Wound Metal gasket													
Guiding	Top/Cage													
Seat Type	Metal/Soft													
Valve Plug Shapes	Contoured / Cage / Pilot													
Plug Characteristic	Linear													
Trim Materials	A351CF8/CF8M, A351CF3/CF3M, H-C, H-B, and so on													

### Guide to Trim Options Available

#### Modular Design

Series 9130 has been designed around a modular manufacturing concept. Using this philosophy, a center body module selected to most suit the specified flow conditions and operating data, is combined with end connection size/rating, selected to support that module. This design feature allows not only the selection of full size ends, to offer oversize end connections to suit a particular requirement.

#### Unbalance Trim

Single Contoured Unbalance Port (SP) are up to 4". Ports are guided by heavy guide.

#### Balance Trim

Pressure balanced cage port is used to reduced the thrust on the port. Balanced Cage Port (C-B) is over 4" is standard and under 4" are available for specific applications. Soft seat is used in application requirement ANSI Class VI 'BUBBLE-TIGHT' shutoff and FIRE SAFE design. Its design consists of an elastomer sandwiched between two metal pieces, retainer (or cage) and metal seat. The installation can be done by inserting soft seat between retainer (or cage) and metal seat. Therefore it can be used for fire safe function.

### 3-Way valve Bonnet type

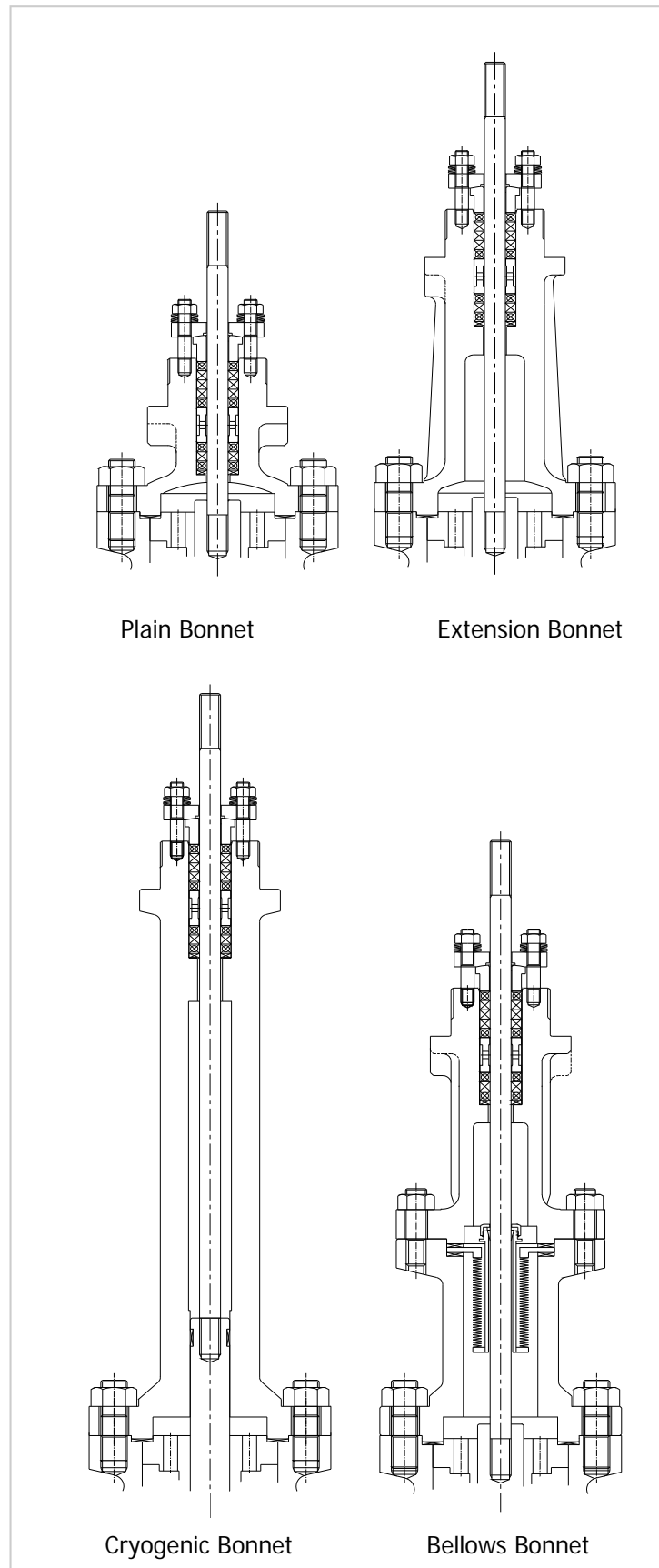


Figure 2. Bonnet Design Option

**Series 9130 outline dimensions**

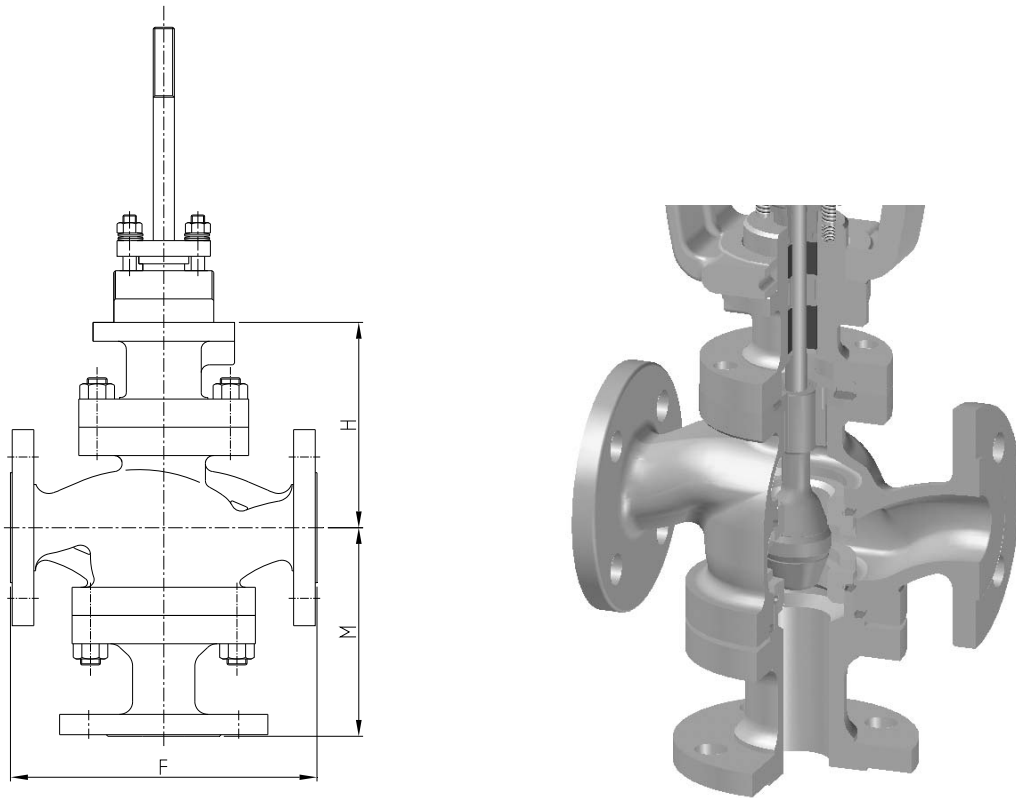
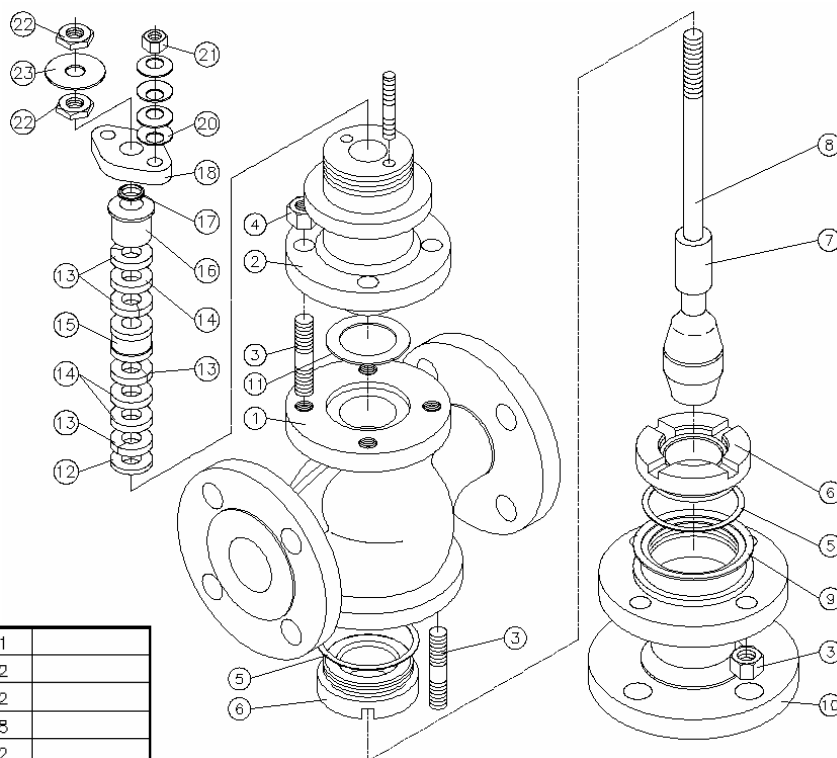


Figure 3. Series 9130 dimensions

Table 1. Series 9130 Dimensions

(unit: mm)

Size		F			H (Plain)		H (Extension)		M	
		150#	300#	600#	150#,300#	600#	150#,300#	600#	150#,300#	600#
1/2"	15A	184	194	206	120	135	220	235	135	140
3/4"	20A	184	194	206	120	135	220	235	135	140
1"	25A	184	197	210	129	134	229	234	133	141
1 1/2"	40A	222	235	251	144	158	244	258	151	157
2"	50A	254	267	286	156	188	256	288	184	189
2 1/2"	65A	276	292	311	172	206	272	306	193	198
3"	80A	298	317	337	205	253	355	370	244	251
4"	100A	352	368	394	263	271	413	428	254	264
5"	125A	403	425	457	315	340	465	490	315	322
6"	150A	451	473	508	321	389	471	526	316	326
8"	200A	543	568	610	371	423	521	604	380	400
10"	250A	673	708	752	421	455	571	604	429	435
12"	300A	737	775	819	523	585	652	735	380	380



23	POINTER	CF8	1	
22	STEM LOCK NUT	CF8	2	
21	HEX. NUT	CF8	2	
20	CONED DISC SPRING	SK5M	8	
19	GLAND BOLT	CF8	2	
18	GLAND FLANGE	CF8	1	
17	DUST RING	TEFLON	1	
16	GLAND FOLLOWER	CF8	1	
15	LANTURN RING	CF8	1	
14	GLAND PACKING	GRAPHITE	3	
13	GLAND PACKING	CARBON FIBER	4	
12	PACKING RING	CF8	1	
11	BONNET GASKET	CF8M/GRAPHITE	1	
10	BOTTOM FLANGE	WCB	1	
9	BOTTOM FLANGE GASKET	CF8M/GRAPHITE	1	
8	STEM	CF8M	1	
7	INNER VALVE	CF8M	1	
6	SEAT RING	CF8M	2	
5	SEAT GASKET	CF8M/GRAPHITE	2	
4	HEX. NUT	2H	8	
3	STUD BOLT	B7	8	
2	PLAIN BONNET	WCB	1	
1	BODY	WCB	1	
NO.	NAME OF PARTS	MATERIALS	Q'TY	REMARKS

Figure 4.  
Body Disassembly and Assembly Diagram

### Warranty / Remedy

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