

VSeries Steam Thermal fluid Three Piece or Flanged Ball Valves



Size Range: 1/4" - 8" (DN8 - DN200)

Materials: Stainless Steel, Carbon Steel, Brass, Hasteloy-C, Monel, Alloy-20, Duplex

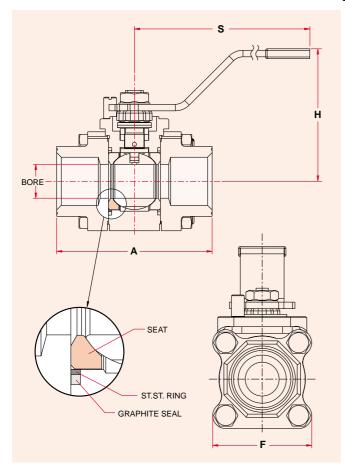
End Connections: Screwed, Socketweld, Buttweld Flanged ANSI Class 150, Class 300, DIN PN16, DIN PN40

Service: Saturated Steam, Superheated Steam, Thermal Fluid

Temperature Range: Steam up to 240°C, Thermal Fluid up to 320°C

Operation: Manual or Actuated (Standard or with Extensions)

W46/47P Series 1/4" - 21/2" Three piece

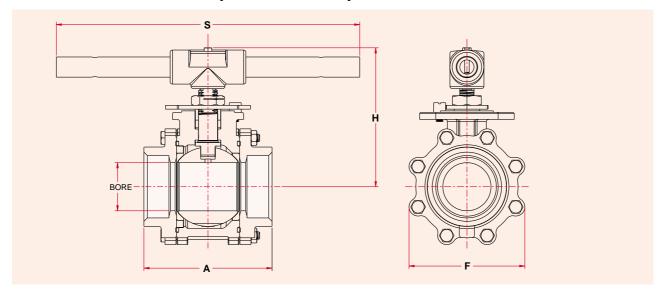


Valve	Unit	Valve dimensions						
Size		Bore	Α	F	Н	S (47P)	S (46)	
4/40	mm	11.15	66.0	47.0	61.5	150.0	114.0	
1/4"	inch	0.44	2.598	1.85	2.421	5.906	4.49	
3/8"	mm	11.15	66.0	47.0	61.5	150.0	114.0	
3/0	inch	0.44	2.598	1.85	2.421	5.906	4.49	
1/2"	mm	11.15	66.0	47.0	61.5	150.0	114.0	
1/2	inch	0.44	2.598	1.85	2.421	5.906	4.49	
3/4"	mm	14.3	71.0	53.7	63.9	150.0	114.0	
3/4	inch	0.56	2.795	2.114	2.516	5.609	4.49	
1"	mm	20.6	95.0	63.7	79.4	187.0	146.0	
'	inch	0.81	3.74	2.507	3.126	7.362	5.75	
11/4"	mm	25.4	108.0	71.7	84.1	187.0	146.0	
1 1/4	inch	1.0	4.252	2.822	3.311	7.362	5.75	
11/2"	mm	31.8	115.5	86.7	97.0	237.0	178.0	
1 ./2	inch	1.25	4.547	3.413	3.819	9.331	7.0	
2"	mm	38.1	128.0	96.9	101.8	237.0	178.0	
	inch	1.5	5.039	3.815	4.008	9.331	7.0	
21/2"	mm	50.8	158.0	108.0	115.1	237.0	287.0	
21/2	inch	2.00	6.22	4.25	4.53	9.331	11.30	

NOTE:

THE STAINLESS STEEL RING PROVIDES COMPLETE ENCAPSULATION TO THE GRAPHITE SEAL, AND PREVENTS IT FROM PENETRATING INTO THE VALVE CAVITY.

W47P Series 3" - 4" (21/2" - 4" FB)



Valve Size		Unit	Valve dimensions						
RB	FB		Bore	A	F	Н	S		
3"	3" 21/2"	mm	63.5	169	140	185	400		
	2.//2	inch	2.5	6.653	5.5	7.287	15.75		
4"	4" 3"	mm	82.6	214	177	200	600		
4		inch	3.25	8.425	6.969	7.894	23.62		
-	4"	mm	100	239	200	211	600		
		inch	3.94	9.409	7.874	8.299	23.62		

For additional dimensions & details on W46/47P refer to Bulletin: ${\bf P}$ - 111.

Valve dimensions

46.0

1.81

49.3

1.94

57.2

2.25

62.3

2.45

67.8

2.67

н

92.0

3.62

94.0

3.7

103.5

4.07

119.2

4.7

123.9

4.88

s

151

5.94

151

5.94

170

6.69

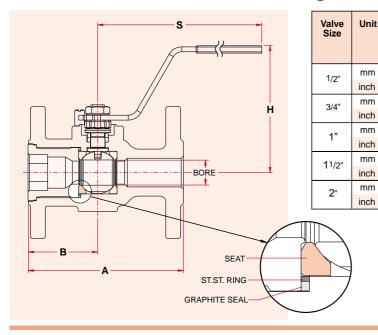
220.5

8.68

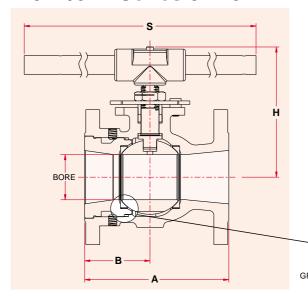
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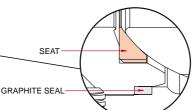
W31P/32P Series 1/2" - 2" Flanged



W31P/32P Series 3" - 8"



Valve	Unit	Bore	Valve dimensions				
Size			Α		В	Н	s
			150	300			
3"	mm	63.5	203	284	62.1	185.1	400
3	inch	2.5	8.0	11.18	3.63	7.28	15.75
4"	mm	82.6	229	305	101.6	201	600
4	inch	3.25	9.0	12.0	4.0	7.91	23.62
6"	mm	111.1	267	403	108	285.9	916
0	inch	4.38	105	15.88	4.25	11.25	36.08
8"	mm	144.4	292	419	163.5	313.6	916
	inch	5.68	11.5	16.5	5.37	12.34	36.08



Bore

11.15

0.44

14.3

0.56

20.6

0.81

31.8

1.25

38.1

1.5

150

108

4.25

117

4.61

127

5.0

165

6.5

178

7.0

300

140

5.5

152

6.0

165

6.5

190

7.5

216

8.5

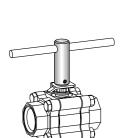
For additional dimensions & details on W31P/32P refer to Bulletin: **P** - 211

For dimensions & details on W73P/74P refer to Bulletin: **P** - 213

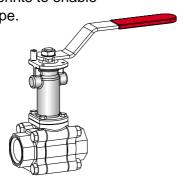
For dimensions & details on W77P/78P refer to Bulletin: **P** - 215

Extensions

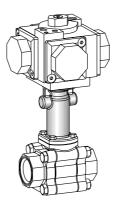
Extended Handles and Bonnts to enable Insulation of Valve and Pipe.



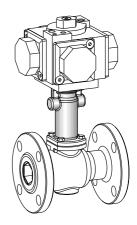
Extended Handle 46 Series



Extended Handle 47P Series



Extension Bonnet For Actuator 47P Series



Extension Bonnet For Actuator 31P/32P Series



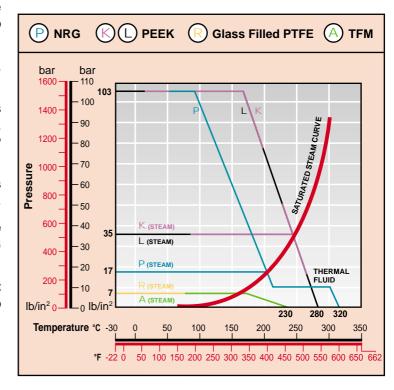
The Habonim Valve is suitable for a wide range of steam pressures.

Service	Seat	Body Seal	Stem Seal		
Low pressure steam up to 7 bar	Reinforced PTFE (R) or TFM (A)	Virgin PTFE (T)	25% Carbon filled PTFE		
Medium pressure steam up to 17 bar	NRG (P)	Graphite (G)	Graphite Seal 25% Carbon filled PTFE thrust seal		
High pressure steam up to 35 bar	PEEK (K) or Virgin PEEK (L)	Graphite (G)	Graphite Seal PEEK thrust seal		
pressure above 35 bar	Metal Seat - Please Consult Engineering				

General Notes:

- Habonim's special seats are suitable for handling steam and thermal fluid in the most severe conditions.
- 2. Steam and thermal fluid service valves are fitted with red sleeved handles.
- Graphite body seals are completely encapsulated, not allowing extrusion into valve cavity.
- **4.** Live loaded stem packing compensates for thermal cycling.
- **5.** PEEK seated valves are fitted with 17-4PH stems for high operating torques.
- 6. Thermal fluid valves with NRG seats and graphite seals are suitable for temperatures up to 320°C - @ 2 bar.
- **7.** Optional types of extended handles and Bonnets, enable insulation of valve and pipe.
- Valves are available in the 3-piece 46/47P series or the Flanged 31P/32P series Reduced port, Flanged 73P/74P Series full port, Flanged 77P/78P Series full port.
- **9.** Pressure / Temperature rating for Flanged valves are limited according to class ratings.
- **10.** For actuated valves it is recommended to use the Compact actuator with Viton O-Rings, NRG pads & High temperature grease.
- When mounting the Habonim Compact actuator or electric actuator, please refer to instructions given in Bulletin T-615.

Standards of Compliance				
Screwed Ends	BSPT BS21 BSPP DIN 2999 NPT B1.20.1			
Socketweld Ends	DIN 3239 Pt.2 ANSI B16.34			
Buttweld Ends	DIN 3239 Pt.1 BS 1600 (petroleum industry) Sch 5, 10, 40, 80			
Flanged Valves: 31P/32P, 73P/74P 77P/78P	ANSI B16.5, B16.10 (face to face) DIN 2501, DIN 3202 - F1, F4, F5 (face to face)			
Test Rating	ANSI B16.34 / API 598 BS 6755 Pt.1 DIN 3230			
Certification	ISO - 10474 (DIN EN 10204, 3.1B) - upon request			



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