

R-P&C FORGED STEEL VALVES

**F-90 Screwed End
F-91 Socket Weld End**

**PISTON CHECK VALVE
BOLTED CAP
800 P.S.I. @ 850°F.**

(For Horizontal Installation Only)

WORKING PRESSURE (NON-SHOCK)
600 PSI @ 900°F STEAM-OIL
800 PSI @ 850°F STEAM-OIL
2000 PSI @ -20°F TO 100°F
TEST PRESSURE: 3000 PSI HYDROSTATIC SHELL

Sizes: 1/4" Thru 2"

MATERIALS OF CONSTRUCTION

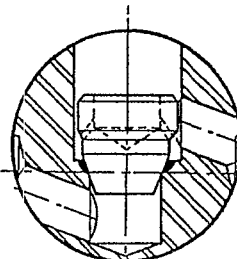
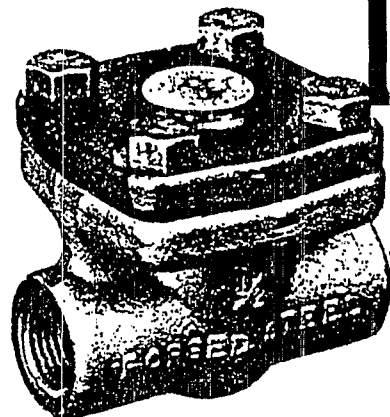
No.	Part	Material	A.S.T.M. Spec.	Remarks
1	Nameplate	Aluminum	—	Commercial
2	Cap	Forged Steel	A105	Grade II
3	Bolt, Cap	Alloy Steel	A193	Grade B7
4	Gasket	Stainless Steel Asbestos Filled		Spiral Wound
5	Disc	Stainless Steel	A276	Type 420 (500 BHN)
6	Body	Forged Steel	A105	Grade II Seat Stellite #6

TRIM SELECTION CHART

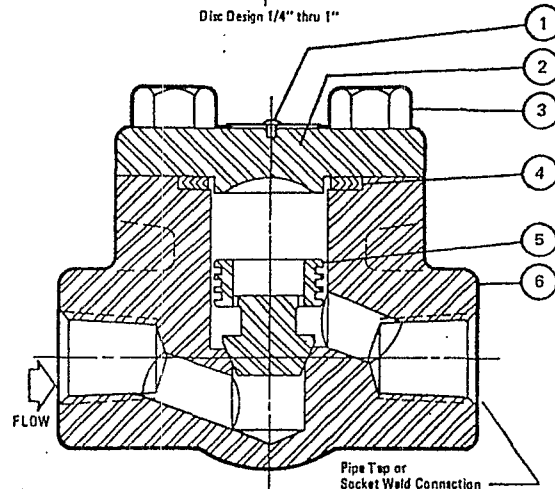
Figure Number	Body & Bonnet	Disc & Integral Seat	Bonnet Gasket	Packing
F 90 DE	A-105 Gr. II	CR 13*	304-ASB	—
F 90 A	A-105 Gr. II	316 S.S.	304-ASB	—
F 90 M	A-105 Gr. II	Monel	Monel-ASB	—
F 90 MT	A-105 Gr. II	Monel	Monel-TEF	—

*Integral seat Stellite-Faced
Note: F 91 also available in above trims.

Valves with Teflon trim are limited to 500° F service.



Disc Design 1/4" thru 1"



DIMENSIONAL SPECIFICATIONS

Size	Face to Face	Center to Top	Gasket Size 1/8 Thick	Dia. of Port Opening	Socket Weld Bore*	Socket Weld Depth*	Approx. Weight
1/4	3	2	1 1/4 x 1 1/4	1/4	.555	3/8	3 1/4
3/8	3	2	1 3/4 x 1 1/4	3/8	.690	3/8	3 1/4
1/2	3	2	1 3/4 x 1 1/4	1/2	.855	3/8	3 1/4
3/4	3 1/2	2 1/4	1 3/4 x 1 1/4	3/4	1.065	1/2	3 3/4
1	4 1/4	2 1/4	1 3/4 x 1 1/4	1	1.330	1/2	5 1/2
1 1/4	6	3 1/4	2 1/4 x 1 3/4	1 1/4	1.675	1/2	11
1 1/2	6	3 1/4	2 1/4 x 1 3/4	1 1/2	1.915	1/2	11
2	7	4 1/2	2 3/4 x 2 1/4	1 1/2	2.406	3/4	14 1/2

*Conforms to ANSI B16.11

R-P&C

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