



UNITED
Engineering Corporation

FORGED STEEL PISTON VALVE



United now launches the Forged Piston Valve. Concern for safety in all critical valve applications resulted in the development of the Forged Piston Valves, which are structurally superior, having increased strength and greater impact and fatigue resistance at cryogenic conditions, as well as at high pressure and high temperature.

United forged Piston Valve is an extremely strong and sturdy design of the piston valve, recommended and used for high pressure high temperature, as also for all critical service applications, incorporating

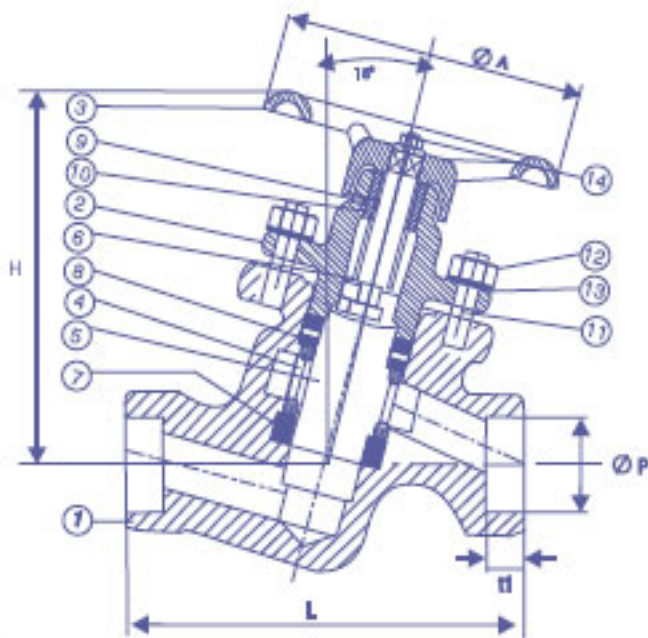
the patented and proven world famous Soft-Seal (resilient rings) sealing principle.

The Forged Piston Valve is manufactured to class #800 pressure rating and in general conformance to API - 602 standards. The inclined bonnet design results in uniform contours and improved flow characteristics.

Forged Piston Valves retain all the advantages of the earlier Piston Valves, like ease of service, very effective and durable leak tightness, maintenance-free and environment -friendly, plus offering a choice of a variety of sealing rings to handle more than 230 industrial media. Features which are synonymous and an identification of the world-class quality of Piston valves.



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Overall and Connection Dimensions in mm for Socketweld Ends

DN Size mm	Overall dimensions			Connection Dimensions		
	L	H	A Ø	Stroke	P	t1
USN15	100	118	100	22	21.8	10
USN20	120	134	120	24	27.2	13
USN25	135	155	140	28	33.9	13
USN40	185	215	196	40	48.7	13

Pressure Rating

Pressure Rating	Hyd. Test Pressure (Shell) Bar/Psig	Hyd. Test Pressure (Seat) Bar/Psig	Pneumatic Pressure Bar/ Psig	38°C Bar/ Psig	93.5°C Bar/ Psig	204.5°C Bar/ Psig	343.5°C Bar/ Psig	399°C Bar/ Psig	426.5°C Bar/ Psig
CLASS 800	209.6	152.7	6	138.8	126.5	118.8	100.5	94.5	77.35
	2962.5	2172.5	85.3	1975	1800	1690	1430	1345	1100

Also available :

Products- Piston Valves Strainers - ' T ' Type

Products- Steam Traps - Thermodynamic, Thermostatic, IBT, / Ball Float Traps/ Bellow Sealed Valve / Manual & Actuated Ball & Butterfly Valves / Cryogenic Piston Valves, /Strainers - ' Y ' Type, / Level Gauges - Reflex, Transparent, Bicolor.

In view of technical progress designs and dimensions are subject to change without notice.

MATERIAL OF CONSTRUCTION

BODY	ASTMA 105	ASTMA182 F316
BONNET	ASTMA 105	ASTMA182 F316
HANDWHEEL	C.S. / M.I.	C.S. / M.I.
LANTERN BUSH	AISI 410 / CA - 15	AISI 316
PISTON	AISI 430 / DIN 1.4523	AISI 316 / CF8M
SPINDLE	AISI 410 / AISI 316	AISI 316
LOWER VALVE RING	KLINGER STD.	KLINGER STD.
UPPER VALVE RING	KLINGER STD.	KLINGER STD.
TENSION PIN	SPRING STEEL	SPRING STEEL
THREADED BUSH	GG 20	AISI 316
STUD	ASTMA A 193 Gr.B7	AISI 316 / ASTM A 193 Gr. B8M
HEX.NUT	ASTMA 194 Gr.2H	ASTMA 194 Gr.8M/AISI316
BEL WASHER	SPRING STEEL	SPRING STEEL
HANDWHEEL NUT	ASTM A 194 Gr.2H	ASTMA 194 Gr.8M / AISI 316



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Quality Solutions for Flow Control Requirements

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