

RASAII LINED PLUG VALVES



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RASAII FLOW LINES

34, NEW STREET, MADUVANKARAI, GUINDY, CHENNAI 600 032. INDIA. Tel: + 91-44-2244 7285, + 91-44-2245 7658 Fax: + 91-44-2244 7616 Email: rfl@md2.vsnl.net.in URL: www.rflexports.com **About**Ourselves

RASAII is an International Company. Founded in 1981, Rasaii Flow Lines has been engaged in design, Manufacture and Distribution of High Tech Valves.

Over the last 20 years, **RASAII** has been providing its Valves for various end - uses and applications in refineries, petrochemicals, fertilizers, sugar, paper, steel, cement, chemical and pharmaceutical industries as well as in power plants around the world.

RASAII's design and engineering are novel and unique and conform to international standards and specifications. Our products are tested for various standards and ratings and are superior in quality.

Our Distributor / Representative :



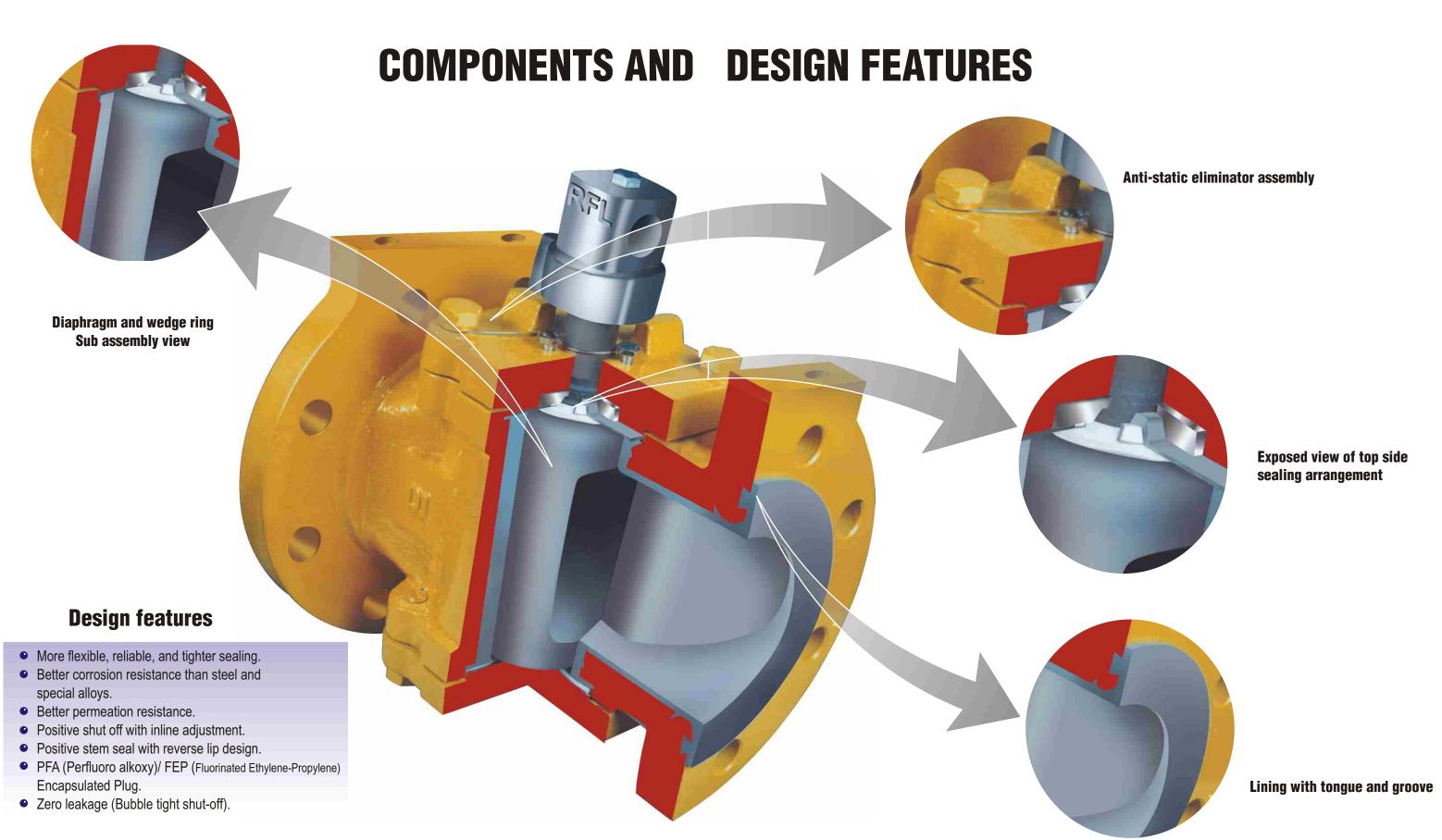


LINED PLUG VALVES

UNIQUE AND MATCHLESS IN QUALITY







2

3





Valve Application Chart

This ready to use reference table provides a brief over view of the varied applications for which **RASAII** Valves are well suited.

For detailed information and applications please refer our product wise catalogue or call your nearest **RASAII** Dealers / Distributors.

Color Legend:

The color in each block indicates a particular Valve's level of appropriateness for a specific function, media or application requirement.

G	Good

B Better Performance

Conditional Usage

Not Recommended / Not Applicable

		SLEEVED PLUG VALVE	LINED PLUG VALVE	LINED BALL VALVE	LINED CHECK VAL	
	On / Off	G	G	G	N	
FUNCTION	Throttling	В	С	С	N	
	Diversion	G	G	N	N	
	Clean Liquid	G	G	G	G	
	Clean Gases	G	G	G	N	
	Dirty Liquid	G	С	С	G	
	Dirty Gases	G	С	С	N	
	Corrosive Liquid	G	G	G	G	
	Corrosive Gases	G	G	G	N	
MEDIA	Hazardous Liquid	G	G	G	G	
	Hazardous Gases	G	G	G	N	
	Viscos Liquid	G	G	G	G	
	Scaling Liquids and Slurries	G	В	В	G	
	Abrasive Slurries	G	С	С	G	
	Fibrous Slurries	G	G	С	G	
	High Pressure Steam (>150 Lbs.)	N	N	N	N	
	Low Pressure Steam (<150 Lbs.)	С	С	N	N	
	Dry Materials	G	G	G	G	
	Food/Pharmaceutical	G	G	G	G	
	Vacuum Application	G	G	G	N	
	High Flow Application	G	G	G	G	
	Low Torque	G	G	G	N	
	Fugitive Emissions Control	G	G	G	G	
	Maintenance Free	G	G	G	G	
APPLICATION REQUIREMENTS	Longer Life	G	G	G	G	
ALGOINE IN TO	SIZES (Inches)	1/2" – 12"	1/2" - 8"	1/2" - 6"	1" – 4"	
	Pressure Rating (ANSI Classes)	150#, 300#, 600#	150#, 300#	150#, 300#	150#	
	High Temperature	450° F	400° F	400° F	400° F	
	Low Temperature	-40° F	-20° F	-20° F		
	DESIGN FEATURE AND OPERATIONAL BENIFITS.	Low torque, long lasting, Maintenance free, Cavity free, Self-sealing.	Absolutely free from corrosion. Long lasting and Maintenance free.	Innovative elastomer super seat [©] for long lasting and low torque. The Best seat design and integrated Ball and Stem gives longer life to the valve.	Matchless for Horizontal Vertical applications. Perfect forever. Effective in severe and slurry applications	



Rotary Type Single acting actuator



Old actuator fitted on valve





Gear with locking provision

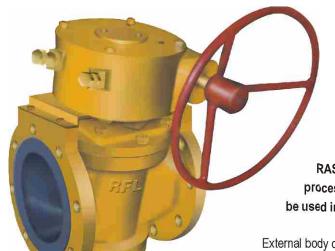


4 Inch Lined Plug Valve with gear on special request.





DETAILED DESCRIPTION OF LINED PLUG VALVE



RASAII lined plug valves' 6" and above are offered with Gear operation. The more flexible, reliable and easy to operate valves with less torque is our speciality. The lining, locked by grooves allows the valves to be used on high vacuum and pressure applications without lining collapse, shrinkage and blow out.

RASAII lined plug valves are virtually unaffected by changes in processing temperature or chemical concentration. Valves can be used in all corrosive fluids.

External body of the valve is coated with corrosion-resistant coating.

For Class 150#

Si	ze	Break - Away Torque inch Lbs (Nm)	Flow Rate (Value)				
Inch	mm	EBS (IVIII)	Cv	Kv			
1/2	15	240 (27)	8	9.5			
3/4	20	240 (27)	10.5	12.5			
1	25	308 (43.5)	40	47			
1.5	40	575 (85)	93	109			
2	50	785 (89)	186	219			
3	80	1175 (133)	320	376			
4	100	1765 (199)	680	800			
6	150	4650 (525)	1090	1282			
8	200	7750 (878)	1585	1865			

Torque

Start - Break - Away Torque
Running - 60% of B.A.T
Close - 80% of B.A.T
To obtain - Kv Value multiply Cv Value by 0.85

Components / Parts	Material Specifications
Body, Cover & plug	Ductile iron, cast steel, SS 316
Lining	PFA / FEP
Diaphragm & wedge ring	PTFE (Poly-tetra Fluoro Ethylene)
Thrust collar	SS 316
Studs & Nuts	B7, 2H & SS 316

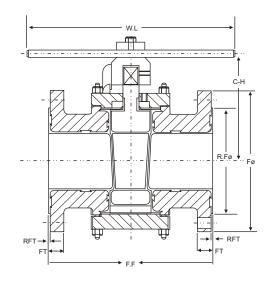
HOW TO ORDER YOUR LINED PLUG VALVE?

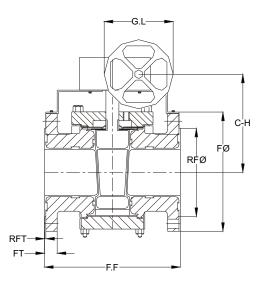
SPECIFY THE FOLLOWING WITH PART NUMBERS: Lined Plug Valve, Class, Body, Plug, Lining, Operation, End Connection, Size.

*EXAMPLE: LPV10202BWFE0100

Lined Plug Valve, Class 150#, Body – Ductile Iron ASTM A395, Plug – Ductile Iron ASTM A395, Lining-FEP (Fluorinated Ethylene-Propylene), Wrench Operation, End Connection – Flanged End, Size – 1".

Drawings and Dimensions





British Unit

all dimensions in Inches

		all difficilities in money														
Size	F	-F	FØ F.T RFØ RFT		RFT	P.(C.D	NOH		SOH		C-H				
	CLASS		CLASS		CLA	ASS			CLASS		CLA	ASS	CLA	ASS	CLA	ASS
	150#	300#	150#	300#	150#	300#			150#	300#	150#	300#	150#	300#	150#	300#
1/2	4.25	5.50	3.50	3.75	.48	.56	1.38	.12	2.38	2.63	4	4	.63	.63	2.92	2.92
3/4	4.63	6.00	3.88	4.63	.48	.63	1.69	.12	2.75	3.25	4	4	.63	.75	2.92	2.92
1	5.00	6.50	4.25	4.88	.48	.69	2.00	.12	3.13	3.50	4	4	.63	.75	3.25	3.25
11/2	6.50	7.50	5.00	6.13	.60	.81	2.88	.12	3.88	4.50	4	4	.63	.88	3.75	3.75
2	7.00	8.50	6.00	6.50	.67	.88	3.63	.12	4.75	5.00	4	8	.75	.75	4.50	4.50
3	8.00	11.13	7.50	8.25	.79	1.13	5.00	.12	6.00	6.63	4	8	.75	.88	5.00	5.00
4	9.00	12.00	9.00	10.00	.98	1.25	6.19	.12	7.50	7.88	8	8	.75	.88	6.10	6.10
6	10.50	15.88	11.00	12.50	1.04	1.44	8.50	.12	9.50	10.63	8	12	.88	.88	7.75	7.75
8	11.50	16.50	13.50	15.00	1.17	1.63	10.63	.12	11.75	13.00	8	12	.88	1.00	9.50	9.50

Metric Unit

all dimensions in Millimetre

Size	F-F FØ		F	.T	RFØ	RFT	P.C.D		NOH		SOH		C-H									
	CLASS		CLASS		CLA	ASS			CLASS		CLASS		CLASS		CLASS		CLASS		S CLASS CL		CLA	ASS
	150#	300#	150#	300#	150#	300#			150#	300#	150#	300#	150#	300#	150#	300#						
15	108	139	89	95	12	14	35	3	60	67	4	4	16	16	74	74						
20	117	152	98	117	12	16	48	3	70	82	4	4	16	19	74	74						
25	127	165	108	124	12	17.5	51	3	79	89	4	4	16	19	82	82						
40	165	190	127	155	15	20.5	73	3	98	114	4	4	16	22	95	95						
50	178	215	152	165	17	22.3	92	3	120	127	4	8	19	19	114	114						
80	203	282	190	209	20	28.7	127	3	152	168	4	8	19	22	127	127						
100	228	305	229	254	25	31.7	157	3	190	200	8	8	19	22	155	155						
150	266	403	279	317	26	37	216	3	241	270	8	12	22	22	197	197						
200	292	419	343	381	30	41	270	3	298	330	8	12	22	25	241	241						

LEGEND

F-F	FACE TO FACE	NOH	NUMBER OF HOLES
FØ	FLANGE DIAMETRE	SOH	SIZE OF HOLE
F-T	FLANGE THICKNESS	W.L	WRENCH LENGTH
RFØ	RAISED FACE DIAMETRE	G.L	GEAR LENGTH
RFT	RAISED FACE THICKNESS	C-H	CENTRE OF FLANGE TO HEIGHT OF BODY
P.C.D	PITCH CIRCLE DIAMETRE		