

matchless product since 1981













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Introduction

RFL established 1980 manufacturing Sleeved Plug Valve (Non lubricated), Lined Plug Valve, Lined Ball Valve, Lined check Valve with PFA/FEP procure from EI DUPONT and 'V' Notch Control Ball Valve.

Material of construction:

Different material like WCB, WCC, LCB, CF8, CF8M, CF3M, CF3, CD4MCu, super alloy like Duplex. St. St. family - 4A, 5A, Alloy 20, Hastalloy B, Hastalloy C, CZ100, Inconnel, 904L... to suit different acid and chemical and highly corrosive & erosive application.

Standard:

We manufacture the valve with ANSI, DIN, JIS & BS Table, also tailor made Valve - Face to Face & Drilling standard (Non-Standard) Valves to satisfy the end user.

Application:

Fertilizers, Petrochemical, Refineries, Paper & Pulp, Pharma, Heavy water plant, Nuclear application, Atomic Energy, Oil & Gas, to any processing Industries ... etc.

Pressure class:

Our Pressure class 125 # , 150#, 300#, 600#, 800# & 1500#, DIN PN16, PN40 & above as per PED (CE) norms.

Special design:

CAGE type, 3 way, 4 way and fully Jacketed & Partially Jacketed not only for Sleeved Plug Valve also for Lined Plug Valve too.

Lined Ball Valve:

The Unique seat design introduced with cushion effect at 45° angle to cover entire 360 degree, result is the ball will have zero pressure or equal pressure outcome is longer life due to low friction on seat.

Sleeved Plug Valve:

This is the best replacement for lubricated plug valve and globe valve, No maintenance, No external lubrication, No Jamming effect due to non-lubrication, 360 degree covered by PTFE Sleeve gives best performance, Port designed for maximum flow etc.,

Lined Plug Valve:

Low cost in price compare to high alloy valve (material of construction) it works in low pressure area, all wetted portion are PFA/FEP Teflon lined it can be used even mixed acid where designers cannot select expect high alloy.

Lined Check Valve:

This Valve is unique designed for vertical as well horizontal flow media. The puppet taper will never change even after million operations.





Store

Semi finished stock available all times in store to facilitate in time supply

High Accuracy CNC Machining





Lined Valves

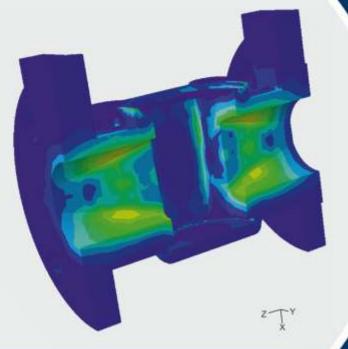
Lined Component controlled by QC dept., to 10000 V –

QC

RFL takes at most care to inspect each component 100% in house

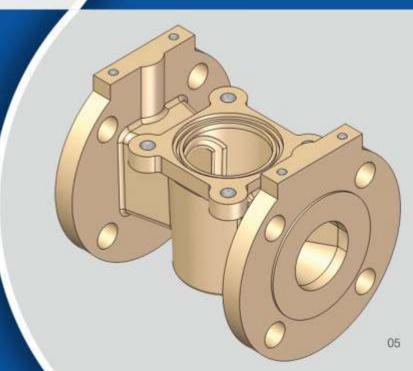






FEA design capability

Valve body 3D design



C-E-R-T-I-F-I-C-A-T-E













Most Efficient, Non-Lubricated, Corrosion Resisting, Self-Sealing and Long Lasting.



Design Features

- Valves up to 4" in investment casting.
- 6" and above made out of Sand or Shell Casting.
- Superior Finish and longer life of valve body.
- Bi-directional flow.
- Positive shut-off with inline adjustment.
- Positive stem seal with reverse lip design.
- Inline PTFE sleeve surrounds the plug.
- PTFE sleeve locked in the body and field replaceable, on line.
- Designed for throttling.
- Unique plug and body design for low torque operation.
- Non-Lubricated, self-cleaning of plugs while in operation.
- Zero leakage (Bubble tight shut-off).
- Easy assembling and disassembling.
- Technologically superior design, our speciality.
- Cost effective and top value for your dollar.
- Proven performance.
- Self sealing.

Components

Body / Cover See Page No 7 Plug Sleeve PTFE Diaphragm And PTFE Wedge Ring SS 316 Metal Diaphragm Thrust Collar SS 316 Washer PTFE Studs & Nut B7 & 2H / SS 316

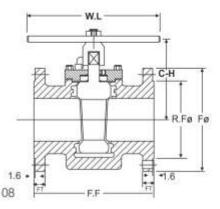


DIAPHRAGM AND WEDGE RING EXPOSED VIEW

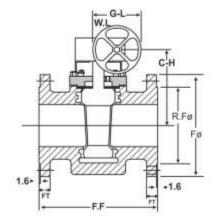
Options Available

Both Ansi 150# And 300# Fully Jacketed Partially Jacketed Flanged End Butt Weld Socket Weld 3-way 3-way Jacketed 4-way

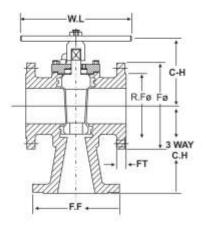
1/2" TO 4"



6" and Above, Gear Operated



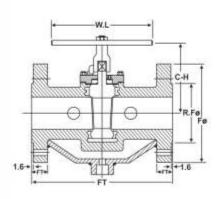
3-Way Valves



Fully Jacketed Valve







- Fully jacketed valve is specially designed for circulation of hot or cold gas or liquids.
- Design permits through hydrostatic or pneumatic testing of the body prior to addition of jacket.
- Proven performance in critical temperature control applications.
- Multiple connections allow for proper jacket drainage.
- Fully jacketed sleeved plug valve is the chosen preference for complex fluid applications.
- Over-sized flange in accordance with international standards.
- Can withstand up to 270°c temperature.
- Anti-static eliminator is a standard feature in RASAII valves.

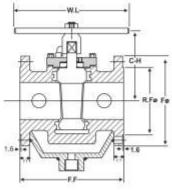


Partially Jacketed Valve



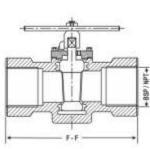
- Designed in compliance with international standards.
- Design portion extends up to body level only with normal flanges.
- Anti-static eliminator is a standard feature in RASAII valves.
- F-F Dimensions and Flange Diametre will vary to that of Fully Jacketed type.
- Total height of the valve including handle cup will differ.



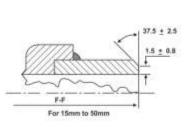




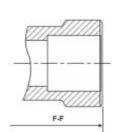




Screwed End



Butt Weld



Socket Weld



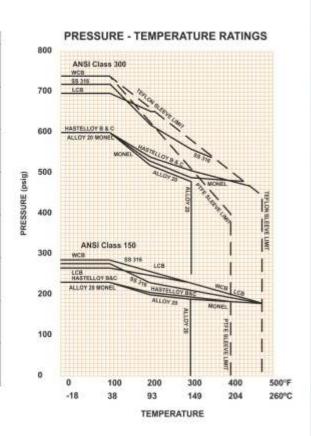




4 Way Valve



PLUG	POSITION 6"	POSITION NO	POSITION 188"	
ô	亞	牵	牵	FLOW 1
ů	牵	牵		FLOW 2
â	牵	牵	牵	FLOW 3
ô	牵	牵		FLOW 4
â		牵	牵	FLOW 5
Ó	牵	#	牵	FLOWS
3	牵	牵		FLOW 7
5		#	牵	FLOWE



For Class 150#

Size		Break - Away Torque inch		Flow Rate (Value)	
Inch	mm	Lbs	(Nm)	Cv	Kv
1/2	15	192	(25.5)	9.5	11
3/4	20	192	(25.5)	9.5	11
1	25	308	(35)	42	49
11/2	40	460	(52)	95	112
2	50	630	(71)	190	224
3	80	965	(110)	326	384
4	100	1450	(165)	694	816
6	150	3820	(370)	1112	1308
8	200	6366	(721)	1665	1960

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

Sleeved plug valve with extended gland packing

Extended Gland Packing is also a RASAII's specialty. Extended Packing is available upon customers' request, when specified.



HOW TO ORDER YOUR SLEEVED PLUG VALVE?



VALVE TYPE

SPV	SLEEVED PLUG VALUE	
SPV PJ	PJSLEEVED PLUG VALVE PARTIALLY JACKETED	
SPV FJ	FJSLEEVED PLUG VALVE FULLY JACKETED	

BODY / END PIECE MATERIAL

01	CI
02	DI
03	WCB
04	SS 316 (CF8M)
05	SS 316L (CF3M)
06	CD4Mcu
07	ALLOY 20 (CN7M)
08	Hastalloy 'B'
09	Hastalloy 'C'
10	Monel 400
11	SS 304 (CF8)
12	SS 304L (CF3)
13	LCB
14	NICKEL CZ 100
15	904 L
16	Duplex St. St.

LINING

N	NO LINING *	*Created to Balance Part No:

OPERATION

W	WRENCH OPERATED	
G	GEAR OPERATED	
Р	PNEUMATIC OPERATED	
Е	ELECTRICAL ACTUATOR	

SIZES

SIZES	INCHES	MM
0050	1/2"	15
0075	3/4"	20
0100	1"	25
0150	1 1/2"	40
0200	2"	50
0300	3*	80
0400	4"	100
0600	6"	150
0800	8"	200
1000	10"	250
1200	12"	300
1400	14"	350
1600	16"	400

PRESSURE CLASS

	150#	
3	300#	
6	600#	

PLUG

02	DI
03	WCB
04	SS 316 (CF8M)
05	SS 316L (CF3M)
06	CD4Mcu
07	ALLOY 20 (CN7M)
08	Hastalloy 'B'
09	Hastalloy 'C'
10	Monel 400
11	SS 304 (CF8)
12	SS 304L (CF3)
13	LCB
14	NICKEL CZ 100
15	904 L
16	Duplex St. St.

END CONNECTION

FE	FLANGED END	
SE	SCREWED END	
BW	BUTT WELD	
SW	SOCKET WELD	
3W	3 WAY	
4W	4 WAY	

Easy Method of Ordering Using Part Numbers

EXAMPLE*

Sleeved plug valve	SPV
Class 300#	3
WCB Body	03
SS 316 Plug	04
No lining	N
Wrench Operated	W
Flanged End	FE
Size 1½"	0150

For easy method of Ordering use the chart and use the part numbers specified above.

*Example: SPV30304NWFE0150

SLEEVED PLUG VALVE, CLASS 300#, BODY - WCB, PLUG-SS316, SLEEVE-N(NO LINING) WRENCH OPERATED, END CONNECTION - FLANGED END, SIZE - 11/2"



$n_{III_{III}}$ SPV - 12" NON STANDARD

SPV We have developed for ICS Senegal 3rd World Largest Phosphoric Acid Plant as per F-F Saunders type "A" design



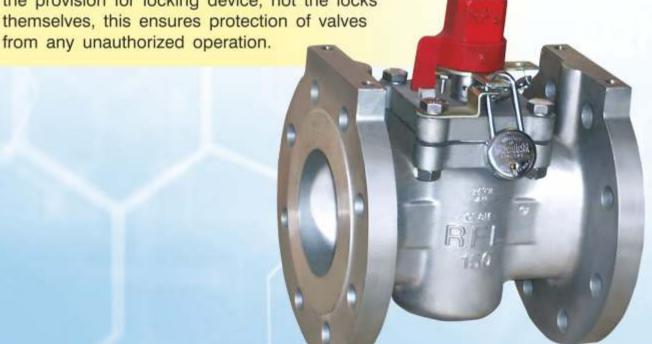
Gear with locking provision





Sleeved Plug Valves with locking device is also our specialty. RASAII provides only the provision for locking device, not the locks

from any unauthorized operation.



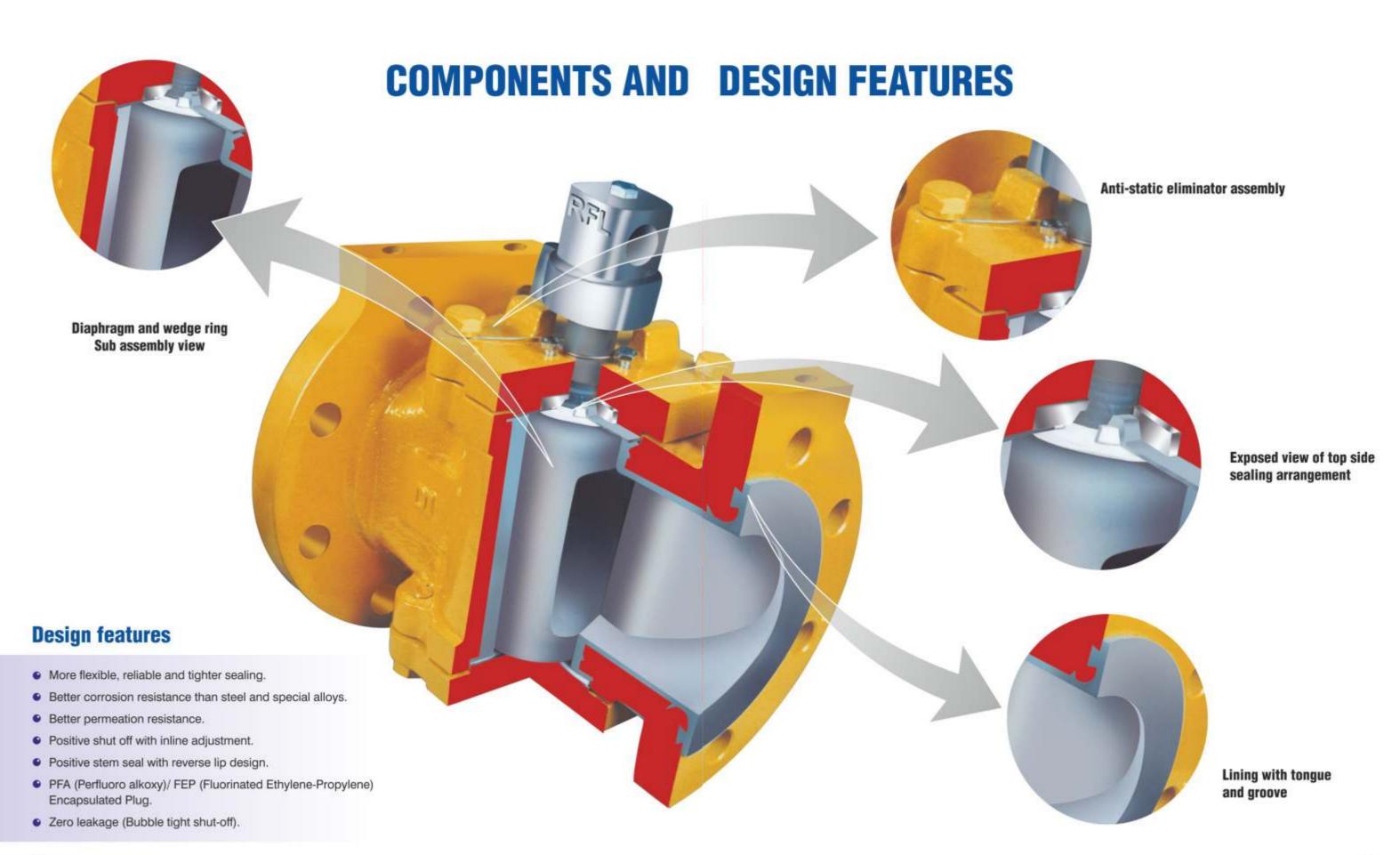


200

Effective in high vacuum and pressure applications









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
В	Better Performance
C	Conditional Usage
N	Not Recommended / Not Applicable

		SLEEVED PLUG VALVE	LINED PLUG VALVE	LINED BALL VALVE	LINED CHECK VALVE
	On / Off	G	G	G	N
FUNCTION	Throttling	В	C	C	N
	Diversion	G	G	N	N
	Clean Liquid	G	G	G	G
	Clean Gases	G	G	G	N
	Dirty Liquid	G	С	C	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	C	G
	Fibrous Sturries	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 EQUIREMENTS	Longer Life	G	G	G	G
Laguitemento	SIZES (Inches)	1/2" - 12"	½" – 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	S#4
	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 and Vertical applications. Perfect sealin forever. Effective in severe fluid and slurry applications.



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.

RASAll 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#

Size		Size Break - Away Torque inch		Flow Rate (Value)	
Inch	mm	Lbs (Nm)		Cv	Κν
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

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

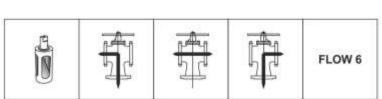


Components / Parts	Material Specifications
Body, Cover & plug	Ductile iron, cast steel, SS 316
Lining	PFA / FEP
Diaphragm & wedge ring	PTFE (Poly-tetra Fluoro Ethylene)
Thrust collar	SS 316
Studs & Nuts	B7, 2H & SS 316



LPV - 3 way 6"





Specially made for our customer as per D type Flow 6

Jacketed LPV - 2 way







Not only 3-way we too make Lined Plug Valve with Jacketing for special purpose









LINED PLUG VALVE LONG PATTERN WITH PN 16 FACE TO FACE DIMENSION ALSO WITH LOCKING PROVISION





LINED SIGHT GLASS

Sizes 1"- 6"

ANSI 150# & 300#

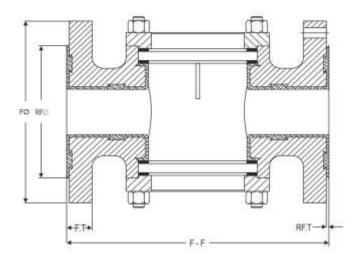


Safe and shatterproof, each window consists of two toughened glasses. Fluid flow can be viewed side ways. The integrated Drip lip provides visual flow indication even at low velocity.

HIGHLY COROSSION RESISTANT LINERS

Molded Fluoro Carbon Liners like PFA or FEP, depending upon application, offer both long service life and high corrosion resistance due to the thick, uniform blowhole free liner. The inherent properties of the liner itself provides non - stick and ideal for highly viscose and high purity applications.







MATERIALS OF CONSTRUCTION		
Body	Ductile iron	
Top and bottom covers	Ductile Iron	
Top and bottom Glass Cushions	PTFE	
Cover Bolts and Nuts	Stainless Steel	
Indicator rod support	PTFE	
Indicator rod	PTFE	
Top and bottom Lens assembly	Toughened Glass	
LINING	PFA / FEP	

Cv Factors

Size	1"	11/2"	2"	3"	4"	6"
-	39	80	155	265	493	967

Pressure - Temperature Rating 300 250 200 150 FEP 100 50 PSI 150 200 250 50 100 10 38 66 93 121 149 177 204



MATCHLESS IN QUALITY AND VALUE

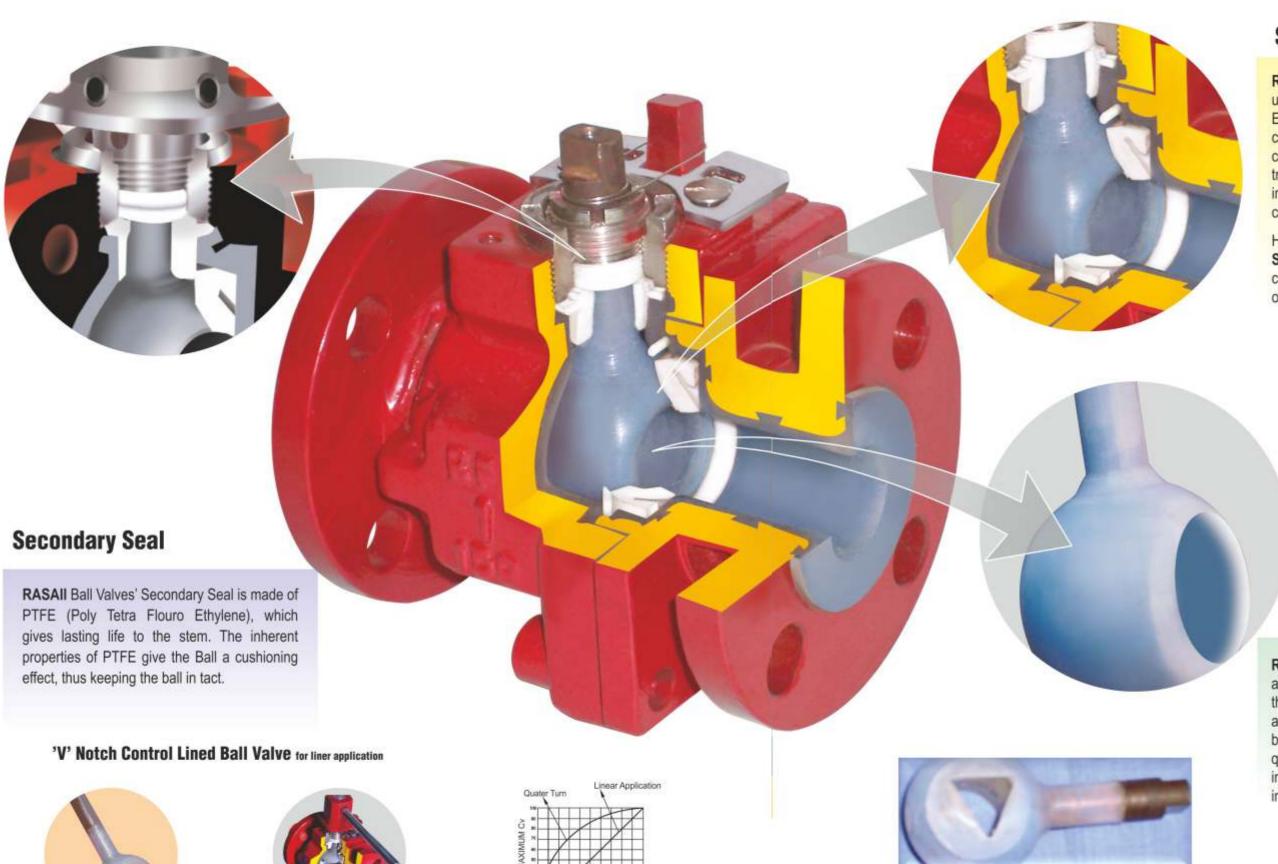


Innovative in design, impeccable in performance





SECTIONAL VIEW WITH DESIGN FEATURES



Seat design

RASAII Ball Valves' Super Seat design is unique in nature and is copyrighted. The Elastomer Super Seat gives the ball a cushioning effect whenever it comes into contact with the body. The ball is always trying to reach the body while the valve is in operation due to intense pressure conditions inside the valve.

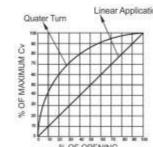
However, the unique design of Elastomer Super Seat gives the ball an added cushioning effect, thus elongating the life of the valve.

Integral Ball and Stem design

RASAII Ball Valves' design features the ball and stem as an integral piece, thus giving them longer life besides ensuring smooth and trouble-free operation. The two-piece ball and stem often tend to break down quickly. RASAII has been the technological innovator to offer ball and stem as an integral unit.







23

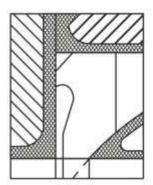


COMPARISON OF ELASTOMER Super Seat® DESIGN

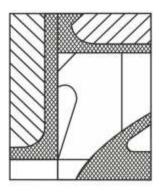


RASAII Elastomer Super Seat shown (in the picture) along with other competitors' Seat Design for comparative analysis. End – users looking for reliable, superior and longer lasting Ball Valves will naturally choose and specify RASAII Ball Valves.

Super Seat[®], How it works?







Valve in Closed Position

RASAII innovation is novel by way of Elastomer characteristics built into the design of our valves. When the Ball rotates, the minute gap between the end piece and the surface face gives the Ball a cushioning effect, whenever the valve is closed. (illustration of operational view open / closed)

Resultant breakage of Two-Piece Ball Design

Broken ball and stem



RASAII Ball and Stem design being an integrated one-piece unit (as per the picture on right hand) offers longer life to our valves. In addition, the unique design of the Elastomer Super Seat gives our valves added life.

Use of a two-piece ball and stem design often results in breakdown (as shown in the picture on left), shortening the life of the valves.

RASAII integral ball and stem design assures longer life and trouble-free operation, compared to other lined ball valve manufacturers' two-piece design.

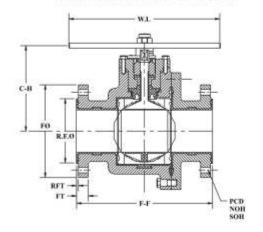
We also supply Lined
Ball Valve in Stainless
Steel Material of Constrution

RASAII integrated ball and stem design





DIMENSIONAL DETAILS



CLASS 300#, DIN STANDARD WILL BE 3 PIECE DESIGN



The face to face dimension and drilling will be as per DIN and Class 300 std.

TORQUE AND Cv VALUE

For CLASS 150#

Size		Break - Away Torque inch Lbs (Nm)	2320	Flow Rate (Value)	
Inch	mm	LUS (NIII)	Cv	Kv	
1	25	75 (8.5)	41	35	
1.5	40	245 (28)	173	147	
2	50	305 (35)	317	263	
3	80	565 (64)	682	580	
4	100	870 (98)	1495	1270	
6	150	2150 (243)	3558	3025	

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

HOW TO ORDER YOUR LINED BALL VALVE?

VALVE TYPE

		_
LBV	LINED BALL VALVE	

BODY / END PIECE MATERIAL

BALL

02	DI
03	WCB
04	SS 316 (CF8M)

PRESSURE CLASS

1	150#	
3	300#	
6	600#	

Example*

03

04

Lined Ball Valve	LBV
Class 150#	1
DI Body	02
DI Ball	02
FEP Lining	В
Wrench Operation	W
Flanged End	FE
Size 2"	0050

WCB

SS 316 (CF8M)

SIZES

SIZES	INCHES	MM
0050	1/2"	15
0075	3/4"	20
0100	1"	25
0150	11/2"	40
0200	2"	50
0300	3"	80
0400	4"	100
0600	6"	150
0800	8"	200
1000	10"	250
1200	12"	300
1400	14"	350
1600	16"	400

LINING

A	PFA
В	FEP

OPERATION

W	WRENCH OPERATED
G	GEAR OPERATED

END CONNECTION

	_			
EE	(01	AMC	ED	END

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

*EXAMPLE: LBV10202BWFE0050

Lined Ball Valve, Class 150#, Body – Ductile Iron ASTM A 395, Ball – Ductile Iron ASTM A 395, Lining-FEP (Fluorinated Ethylene Propylene), Wrench Operation, End Connection – Flanged End, Size – ½*.

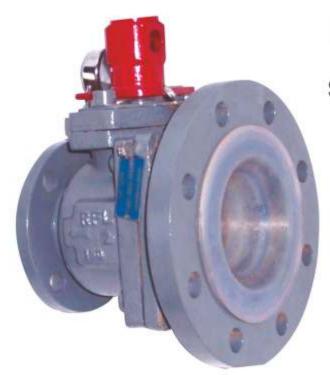
RASAII's Elastomer Super Seat[®] is our specialty.

Copy Right March 2001 V. Ravichandran All rights reserved



PFA LINED FLUSH BOTTOM VALVE

SIZE: 2" VALVE WITH 4" END









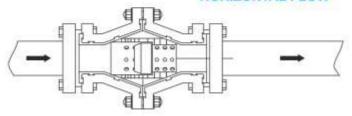
Innovative, Vertical and Horizontal type Check Valves for Slurry, Solvent, Pure Chemicals, Highly Corrosive Acids etc.,

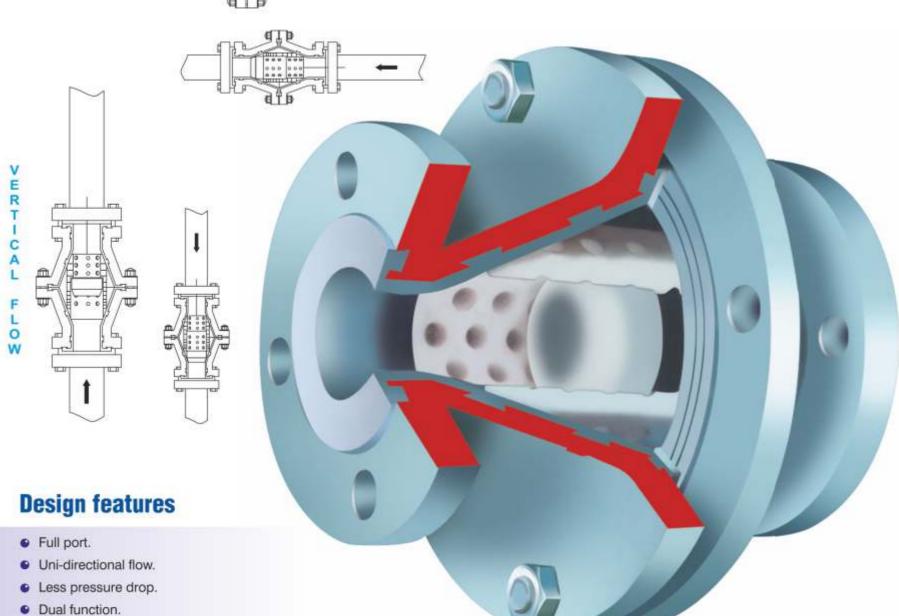




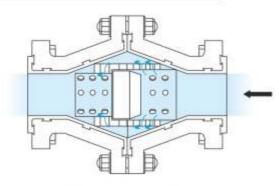
LINED CHECK VALVE TYPE 'A'



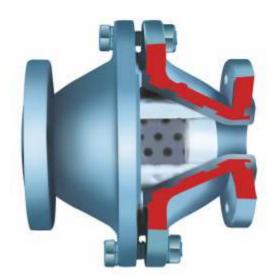


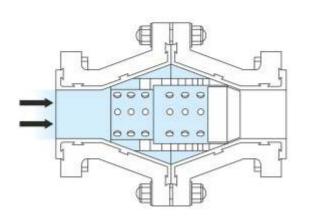


Design	BS 1863	Parts	Ductile iron	Cast steel
Face to Face	BS: 2080 / ANSI B 16.10	Body	ASTM A395 (DI)	ASTM A216 Gr. WCB
Drilling Standard	ANSI B 16.5	Puppet	PTFE	
Inspection and Testing	BS: 6755 PART 1 / API 598	Lining	FEP / PFA	
		Studs	H.T. Steel	ASTM A 193 Gr. B7
		Nuts	Steel	ASTM A 194 Gr. 2H

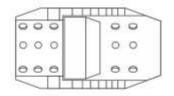


When in operation





How the back pressure works?



Innovative puppet cum filter design

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Check valve with dual function, filter cum valve⁶

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Hazardous chemical flow regulator.

Innovative filter cum valve (Puppet design).

 Valves often out perform expensive exotic alloy valves, economical handling of corrosive or high-purity flow media.

- External body of the valve is coated with corrosion-resistant.
- Designed in accordance with international standards and specifications

This Valve is specially designed for vertical as well horizontal flow media. The puppet taper will never change even after million operations. Whereas in the ball type, ball lasts it's shape after a few operations. Many more users have two different Valves, one for vertical another for horizontal lines. Wherein, the puppet type is applicable for both functions. We offer this Valve design with filter and puppet. Total area of the perforated holes provided in the filter is more than the pipe area, this minimize the pressure loss across the Valve.

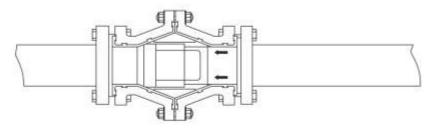
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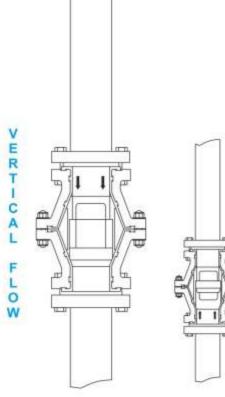


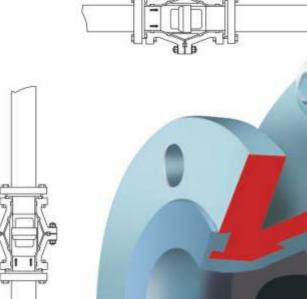


LINED CHECK VALVE TYPE 'B'

HORIZONTAL FLOW





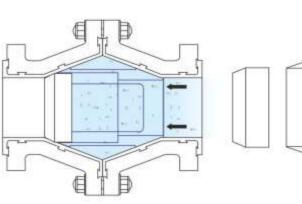


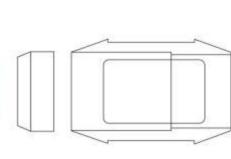


- · Full port.
- Uni-directional flow.
- Less pressure drop.
- Dual function.
- Innovative puppet design.
- Hazardous chemical flow regulator.
- Valves often out perform expensive exotic alloy valves, economical handling of corrosive or high-purity flow media.
- External body of the valve is coated with corrosion-resistant.
- Designed in accordance with international standards and specifications

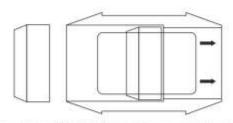
This Valve is specially designed for vertical as well horizontal flow media. The puppet taper will never change even after million operations. Whereas in the ball type, ball lasts it's shape after a few operations. Many more users have two different Valves, one for vertical another for horizontal lines. Wherein, the puppet type is applicable for both functions. We offer this Valve design with puppet. The Valve is very effective in slurry and sludge operations. The flow level of media is well maintained economically.







PUPPET DESIGN



The puppet design is suitable for slurry and sludge applications

HOW TO ORDER YOUR LINED CHECK VALVE?

VALVE TYPE

LCV LINED CHECK VALVE

BODY

02	DI	
03	WCB	
04	SS 316 (CF8M)	

LINING

A	PFA
В	FEP

PRESSURE CLASS

-1	150#
3	300#

PUPPET N PTFE (TEFLON) FE FLANGED END

31

Sizes

SIZES	INCHES	MM
0100	1"	25
0150	11/2"	40
0200	2"	50
0300	3"	80
0400	4"	100

Example*

and the second of the second o	
Lined Check Valve	LCV
Pressure class	1
Body	02
FEP lining	В
Puppet	N
Flanged End	FE
Size 2*	0200

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

*EXAMPLE:

LCV102BNFE0200

Lined Check Valve, Class 150#, Body - Ductile Iron, Lining-FEP (Fluorinated Ethylene Propylene), Puppet-PTFE., End Connection - Flanged End, Size - 2*.

30



Segment Ball Valve with Actuator



Actuator fitted



We are manufacturing V Notch Control Ball Valves class 150#,300#,600# Flanged & Wafer type with actuator , Material of construction is in WCB,WCC,LCB,CF8M,CF8,CF3M,CF3,CN7M,CD4Mcu,CG8M,Monel,CZ100,4A,5A ...etc .

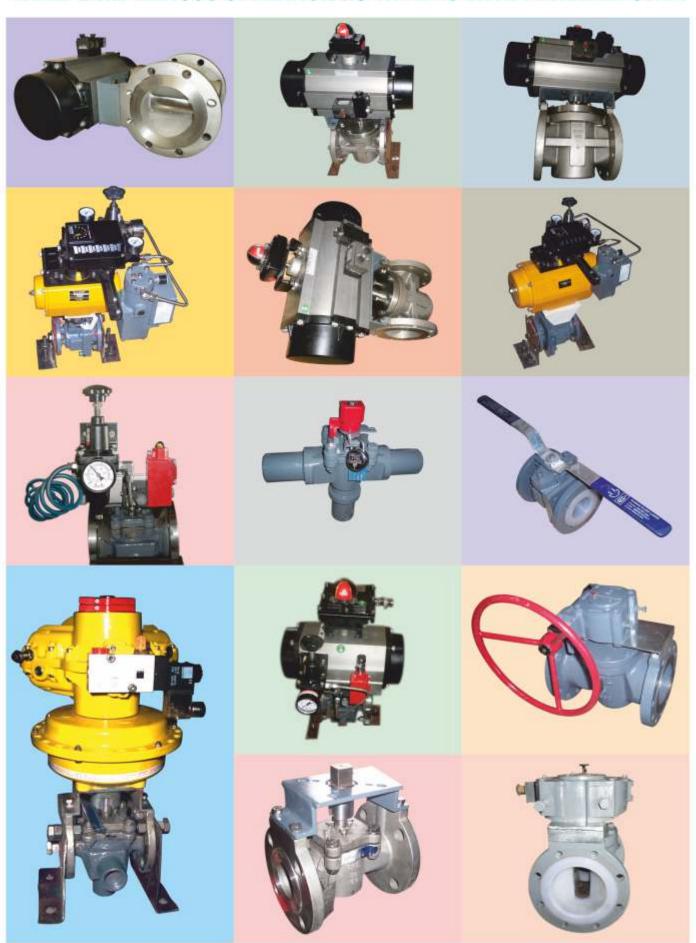


'V' Notch Control Ball Valves





VALVE WITH VARIOUS OPERATION AS WELL AS WITH EXTENDED STEM





British Unit

all dimensions in Inches

Size	F	-F	F	Ø	F	T	RFØ	RFT	P.0	D.D	N	DH	S	HC	W.L	G.L	C	-H	3-WA	Y C.H
	CLASS		CLASS		CLA	ASS			CLASS		CLASS		CLASS				CLASS		CLASS	
	150#	300#	150#	300#	150#	300#			150#	300#	150#	300#	150#	300#			150#	300#	150#	300#
1/4	4.25	5,50	3.50	3.75	.44	.56	1.38	.06	2.38	2.63	4	4	.63	.63	6.38		2.92	2.92	2.75	2.88
3/4	4.63	6.00	3.88	4.63	.44	.63	1.69	.06	2.75	3.25	4	4	.63	.75	6.38		2.92	2.92	2.88	3.00
1	5.00	6.50	4.25	4.88	.44	.69	2.00	.06	3.13	3.50	4	4	.63	.75	8.75		3.25	3.25	3.50	3.78
11/2	6.50	7.50	5.00	6.13	.56	.81	2.88	.06	3.88	4.50	4	4	.63	.88	12.50		3.75	3.75	4.13	4.38
2	7.00	8.50	6.00	6.50	.63	.88	3.63	.06	4.75	5.00	4	8	.75	.75	18.00		4.50	4.50	4.50	4.78
21/2	8.00	11.13	7.50	8.25	.75	1.13	4.13	.06	5.50	5.88	4	8	.75	.88	24.00		4.75	4.75	5.13	5.58
3	8.00	11.13	7.50	8.25	.75	1.13	5.00	.06	6.00	6.63	4	8	.75	.88	24.00		5.00	5.00	6.13	5.58
4	9.00	12.00	9.00	10.00	.94	1.25	6.19	.06	7.50	7.88	8	8	.75	.88	30.00		6.10	6.10	6.00	6.78
6	10.50	15.88	11.00	12.50	1.00	1.44	8.50	.06	9.50	10.63	8	12	.88	.88		18	7.75	7.75	7.50	8.50
8	11.50	16.50	13.50	15.00	1.13	1.63	10.63	.06	11.75	13.00	8	12	.88	1.00		18	9.50	9.50	9.00	10.00
10	13.00	18.00	16.00	17.50	1.19	1.88	12.75	.06	14.25	15.25	12	16	1.00	1.13		24	11.00	11.00	11.00	12.00
12	14.00	19.75	19.00	20.50	1.25	2.00	15.00	.06	17.00	17.75	12	16	1.00	1.25		30	12.50	12.50	No. of Street, or other teams	1110000
14	15.00	30.00	21.00	23.00	1.38	2.12	16.25	.06	18.75	20.25	12	20	1.13	1.25		30	13.00	13.00		
16	30.00	33.00	23.50	25.50	1.44	2.25	18.50	.06	21.25	22.50	16	20	1.13	1.38		24	15.00	15.00		

Metric Unit

all dimensions in Millimetre

Size	F	-F	F	FØ		F.T RFØ		F.T R		RFT	P.0	C.D	N	HC	S	HC	W.L	GL	C	-H	3-WA	Y C.H
	CLASS		CLASS		CLASS				CLASS		CLASS		CLASS				CLASS		CLASS			
	150#	300#	150#	300#	150#	300#			150#	300#	150#	300#	150#	300#			150#	300#	150#	300#		
15	108	140	89	96	11	14.3	35	1.5	60	67	4	4	16	15	152	i	74	74	70	73		
20	117	152	98	117	11	16	43	1.5	70	83	4	4	16	19	152		74	74	73	76		
25	127	165	108	124	11	17.5	51	1.5	79	89	4	4	16	19	178		82	82	89	96		
40	165	190	127	156	14.3	20.7	73	1.5	98	114	4	4	16	22	229		95	95	105	111		
50	178	216	152	165	16	22.3	92	1.5	121	127	4	8	19	19	305		114	114	114	121		
65	203	283	190	210	19	29	105	1.5	140	149	4	8	19	22	457		120	120	130	141		
80	203	283	190	210	19	29	127	1.5	152	168	4	8	19	22	457		127	127	130	141		
100	229	305	229	254	24	32	157	1.5	190	200	8	8	19	22	762		154	154	152	171		
150	267	403	279	318	25.4	37	216	1.5	241	270	8	12	22	22		224	196	196	190	216		
200	292	419	343	381	29	41	270	1.5	298	330	8	12	22	25		406	241	241	229	254		
250	330	457	406	445	30	48	324	1.5	362	387	12	16	25	29		406	279	279	280	305		
300	356	502	483	521	32	51	381	1.5	432	450	12	16	25	32		406	317	317	117			
350	381	762	527	584	35	54	413	1.5	476	514	12	20	29	32		406	330	330				
400	762	838	597	648	37	57.2	470	1.5	540	572	16	20	29	35		459	381	381				

British Unit

all dimensions in Inches

Size	F-F CLASS		FØ CLASS		F.T CLASS		RFØ	RFT	P.C.D CLASS		NOH CLASS		SOH		C-H CLASS		3-WAY C.H. CLASS	
1/2 x 1	5.00	6.50	4.25	4.88	.44	.69	2.00	.06	3.13	3.50	4	4	.63	.75	3.25	3.25	3.50	3.75
%x1	5.00	6.50	4.25	4.88	.44	.69	2.00	.06	3.13	3.50	4	4	.63	.75	3.25	3.25	3.50	3.75
1 x 2	7.00	8.50	6.00	6.50	.63	.88	3.63	.06	4.75	5.00	4	8	.75	.75	4.50	4.50	4.50	4.75
11/2×21/2	8.00	11.13	7.50	8.25	.75	1.13	4.13	.06	5.50	5.88	4	8	.75	.88	4.75	4.75	5.13	5.56
2 x 3	8.00	11.13	7.50	8.25	.75	1.13	5.00	.06	6.00	6.63	4	8	.75	.88	5:00	5.00	5.13	5.56
3 x 4	9.00	12.00	9.00	10.00	.94	1.25	6.19	.06	7.50	7.88	8	8	.75	.88	6.10	6.10	6.00	6.75
4 x 6	10.50	15.88	11.00	12.50	1.00	1.44	8.50	.06	9.50	10.63	8	12	.88	.88	7.75	7.75	7.50	8.50
6 x 8	11.50	16.50	13.50	15.00	1.13	1.63	10.63	.06	11.75	13.00	8	12	.88	1.00	9.50	9.50	9.00	10.00
8 x 10	13.00	18.00	16.00	17,50	1.19	1.88	12.75	.06	14.25	15.25	12	16	1.00	1.13	11.00	11.00	11.00	12.00
10 x 12	14.00	19.75	19.00	20.50	1.25	2.00	15.00	.06	17.00	17.75	12	16	1.00	1.25	12.50	12.50	100000000000000000000000000000000000000	100000000000000000000000000000000000000
12 x 14	15.00	30.00	21.00	23.00	1.38	2.12	16,25	.06	18.75	20.25	12	20	1.13	1.25	13.00	13.00		

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	GL	GEAR LENGTH
RF.T	RAISED FACE THICKNESS	C-H	CENTER OF FLANGE TO HEIGHT OF BODY
P.C.D	PITCH CIRCLE DIAMETRE	3-WAY C-H	CENTER OF FLANGE TO BOTTOM FLANGE







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