

PLUG VALVES

tfv usaoperation

contact@tfvusao.com www.**tfvusao**.com

Call free from USA and CANADA

t: 1-866-TFV-USAO (838-8726)

PTFE SLEEVE PLUG HYDRANT VALVES



FEATURES

- TFV LINE OF PTFE SLEEVE PLUG VALVES ARE DESIGNED FOR HIGH STANDARD OF PERFORMANCE.
- THESE TIGHT SHUT OFF, BI DIRECTIONAL VALVES WITH CAVITY – FREE PASSAGE CAN BE USED ON BOTH PRESSURE AND VACUUM SERVICES. VALVES INSURE LONG – TERM RELIABLE OPERATIONS WITH SIMPLIFIED IN – LINE MAINTENANCE.
- INVESTMENT CAST BODY
- 360° LIPS TO AVOID PLUG ROTATES
- HIGH PRESSURE SEALING RIBS.
- TOP AND DOWN RETENTION OF SLEEVE.
- SLEEVE RELIEF AREA.
- FULLY ADJUSTABLE IN LINE SEAL (THREE TOP BOLTS) ADVANTAGE THREE INDEPENDENT ENVIRONMENTAL
- SEAL.
- DESIGN STD API 599 & BS 5353
- TESTING STD API 598
- NO DEAD SPACE PLUG IS ALWAYS SURROUNDED BY PTFE SLEEVE 360 AROUND AND THEREFORE THE LIQUID IN THE PLUG INTERNAL CANNOT FLOW IN TO NO DEAD SPACE WHETHER IT'S OPEN OR CLOSE. WHEN THE VALVE IS OPEN THE LINE FLOW WOULD FLUSH ORT THE LIQUID IN THE PLUG INTER-NALS.
- ZERO MAINTENANCE OWED TO THE MERITS OF ITS STRUCTURE THE VALVE IS ZERO LEAK-AGE AND NO MAINTENANCE IS REQUIRED. WHEN SEAL PRESSURE ADJUSTMENT IS REQUIRED DUE TO PTFE SLEEVE WEAR, A QUARTER TURN OF ADJUSTMENT BOLTS PUSHES THE PLUG DOWN REGENERATING A SEALING PRESSURE AS IF IT IS A NEW VALVE.THEREFORE NO DISASSEMBLES, NO REPAIR IS REQUIRED FOR MORE THAN 10 YEARS FOR THE MOST OF CASES.. NO LINE REPAIR IS POSSIBLE BECAUSE THE PLUG IS THE TOP ENTRY TYPE.. NO MAINTENANCE ELIMINATES REPAIR EXPENSES LABOR COST AND INCREASES PRODUCTIVITY OF PLANT.
- ZERO LEAKAGE THE THEREEFOLD STEM SEAL SYSTEM THE ZERO LEAKAGE STEM SEALING IS ACHIEVED BY THREEFOLD SEAL-ING SYSTEM.THE PRIMARY SEAL IS PROVIDED BY THE SLEEVE. THE SEALING IS SO TIGHT THAT NO LEAKAGE CAN BE OBSERVED EVEN-WITHOUTA VALVE COVER.THE SECONDARY AND TERTIARY SEAL (TOP SEAL PACKAGE) ARE PROVIDED BY A PTFE TEFLON DELTA RING AND A DIAPHRAGM. THE SEALING IS ALSO SO TIGHT THAT NO LEAKAGE CAN BE OBSERVED EVEN WITHOUT A SLEEVE. A TEST REPORT IS AVAILABLE AT REQUEST.



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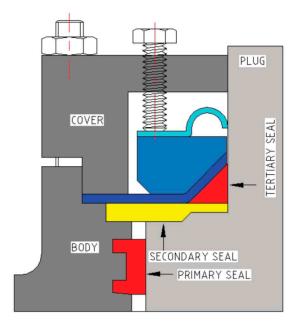
PTFE SLEEVE PLUG HYDRANT VALVES

FEATURES

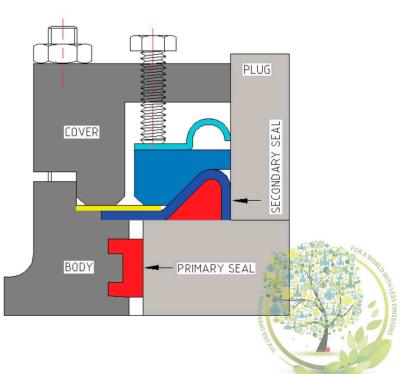
ABSOLUTE PRESSURE SEALING IS INDEPEN-DENT TO LINE PRESSURE. SEALING IS ESTAB-LISHED BY THE ME-CHANCEL FORCES (ADJUSTING BOLTS) INDEPENDENT TO THE LINE PRESSURE, THEREFORE SEALING IS MADE UP STREAM, DOWN STREAM, UPPER PART, AND LOW PART OF THE PLUG. THE LOWER THE PLUG POSITION IS THE HIGHER SEALING PRESSURE. THE SEALING PRESSURE IS ALWAYS CONSTANT. REGARD-LESS OF LINE PRESSURE.

AREA SEAL SYSTEM SEALING IS ESTAB-LISHED BY AN AREA OF TEFLON SLEEVE 360 CIRCUMFERENTIAL SURFACES. EVEN THOUGH THERE IS SCRATCH ON THE SLEEVE DURING OPERATION THE SCRATCH OF 90, CONDENSATION AREA IS LARGE, SCALING AREA IS STABILIZED AND THEREFORE HAS LONG LIFE.

ATMOSFERIC SEAL DESIGN 1



ATMOSFERIC SEAL DESIGN 2



OPTIONS & CONFIGURATIONS

- JACKETED CONSTRUCTION FOR HEATING OR COOLING MEDIA AVAILABLE.
- MULTIPORT ARRANGEMENTS AVAILABLE
- CAGED PLUG CAN BE USED FOR HIGH PRESSURE DROP, HIGH VELOCITY THROTTLING AND SLURRY APPLICATIONS.
- FIRE SAFE DESIGN

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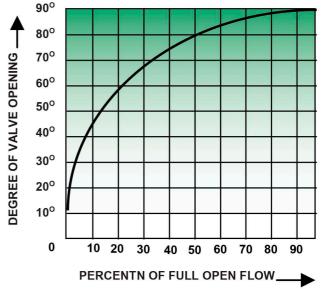
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PTFE SLEEVED PLUG HYDRANT VALVES

MATERIAL LIST

NO,	PARTNAME	MATERIAL										
01	BODY	DI ²⁾ WCB CF8 CF8M CN7M										
02	PLUG	CA15 CF8 CF8M CN7M										
03	COVER	DI ²⁾ WCB CF8 CF8M CN7M										
04	SLEEVE	PTFE										
05	PTFE DIAPHRAGM	PTFE										
07	METAL DIAPHRAGM	ASTM A240 TP.304										
08	THRUST COLLAR	ASTM A276 TP.304										
09	STATIC ELIMINATOR	ASTM A240 TP.304										
9A	STATIC ELMTR. PLATE	ASTM A276 TP.304										
10	STUD -BODY	A193 Gr. B7 A193 Gr. B8										
	NUT -BODY	A194 Gr. 2H A194 Gr. 8										
13	ADJ. SCREW	SS 304										
14	LEVER	STEEL										
15	ADAPTER	STEEL										
16	WASHER	ALUMINUM										
17	HEX. SCREW	STEEL										
19	BRACKET	STEEL										
20	GEAR ACTUATOR	C.I. HOUSING										
29	WEDGE RING	GRAFOIL										
30	BODY GASKET	GRAFOIL										
31	CAGE	CA15 CF8 CF8M CN7M										
32	ADJUSTER BOLT	ASTM A276 TP.304										
33	PLUG ADJUSTER	WCB										
46	GLAND	WCB										
50	ADJUSTER BOLT	ASTM A276 TP.304										

FLOW CHARACTERISTIC

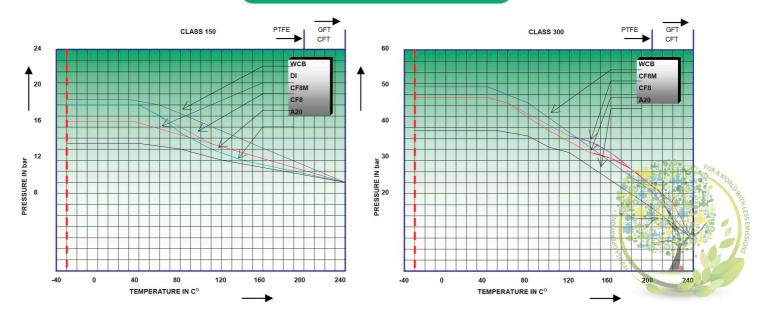


NOTE

1) OTHER MATERIALS AVAILABLE UPON REQUEST

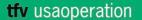
2) FOR CLASS 150 ONLY, FLAT FACE AVAILABLE ON REQUEST.

3) FIRE SAFE DESIGN IS ONLY FOR EXTERNAL LEAKAGE AS PER API : 607 - IV EDITION, NOT FOR THROUGH SEAT LEAKAGE.



PRESSURE-TEMPERATURE CHART

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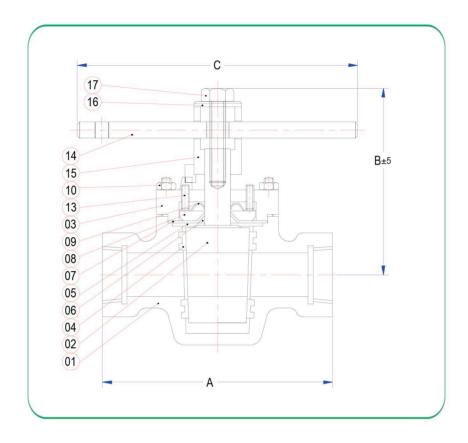
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PLUG VALVES

PTFE SLEEVED PLUG HYDRANT VALVES



NOTE: FROM 1 1/2" TO 2 1/2"

DIMENSION (INCHES)

		A		А					D				Г		WEIG	HT (LBS)			
SIZE			TH, SW,	Extended	В	С				Flange	Flanged Class		Flanged		Extended	TORQUE (IN-LB)		CV VALUE CLASS	
-			BW	BW			150#	300#		150#	300#	150#	300#	BW	BW	150#	300#	150 & 300	
11/2"	6.50	7.48	5.51	12.99	4.72	12.80	5.12	6.10	2.87	0.57	0.83	16.50	24.20	9.90	11.00	354	372	92	
21/2"	7.48	9.49	7.48	15.75	6.89	23.62	7.09	7.48	4.13	0.69	1.00	33.00	41.80	20.90	20.90	797	974	245	





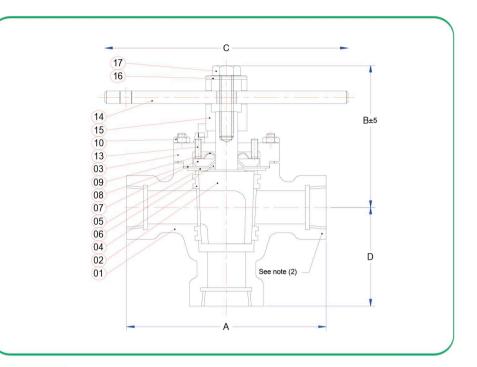
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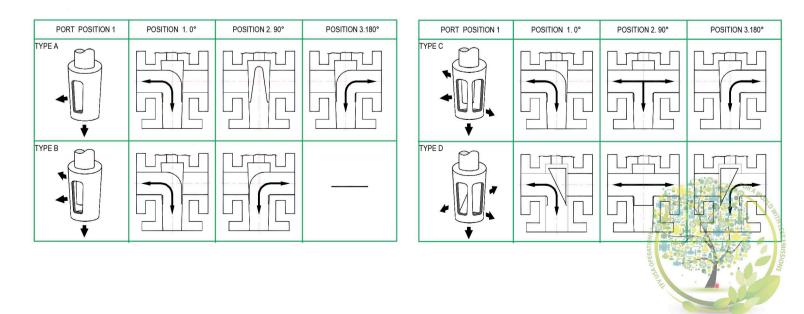
SLEEVED PLUG VALVES

3 WAYS FLOW ARRANGEMENTS



DIMENSION (INCHES)

	A (Face to face Dimensions)						-	C			F	_			WE	GHT (LI	
SIZE	Class	Class			В	С	Class	Class	Е	Class	Class	SE, SWE	1		Flar	nged	THR SW
	150#	300#	THR S	W BW			150#	300#		150#	300#	BWE	150#	300#	150#	300#	BW
11/2"	6.50	7.48	5.51	12.99	4.72	12.80	5.12	6.10	2.87	4.13	4.33	2.87	0.57	0.83	16.50	24.20	9.90
21/2"	7.48	9.49	7.48	15.75	6.89	23.62	7.09	7.48	4.13	5.12	5.51		0.69	1.00	33.00	41.80	20.90





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HOW TO ORDER

VALVE BODY DESIGN (SERIES)		FEATURES		MATERIAL								ENDS	CLASS		SIZE ⁽²⁾		OP	OPERATION	
				BODY		TRIM		SEAT				ENUS		CLASS		DIZE	UF	ENATION	
10S	Sleeve Plug	NONE	None	6	DI	C	CA15	Ρ	PTFE		В	Butt Weld	0	ANSI 150#	01.	5 1 1/2"		Lever	
	valve	HS	Hydrant Valve	2	WCB	3	316SS	R	RPTFE		Т	Threaded	3	ANSI 300#		5 21/2"		Operator	
		CC	Caged Control valve	3	CF8M	4	304SS	С	PTFE		S	Socket weld	6	ANSI 600# ⁽¹⁾			G	Gear	
		F	Fire Safe	8	Alloy 20	8	Alloy 20		carbon filled									Operator ⁽	
		G	Fire Safe / NACE	0	Monel	0	Monel		HIGH								Е	Electric	
		0	Oxigen Service						TEMPERATURE (475°F)								E	Actuator	
		FE	Fugitive Emissions														Р	Pneumati	
		Ν	NACE							_								Actuator	
		FJ	Full Jacketed														в	Bare Sha	
		PJ	Partial Jacketed																
		FW	3 way Full Jacketed														0	Oval oparator	
		PJ	3 ways Partial Jacketed																
		WA	3 Ways Port "A"																
		WB	3 Ways, Port "B"																
		WC	3 Ways Port "C"																
		WD	3 Ways Port "D"																

Example Sleeve Hydrant Plug Valve, Bpdy WCB, Trim 316 SS, Sleeve PTFE, Threaded, ANSI Class 300#, Size 2-1/2" with Lever. **10SHS-23P-T302.5L**

Under Design for flanged ends Only
Threaded from 1/2" to 3" Only
Mandatory from 6" and above

