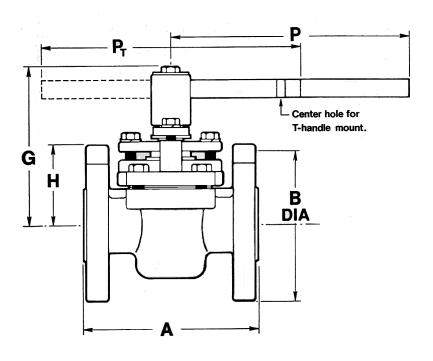


SLEEVED PLUG VALVES 1/2"- 12"

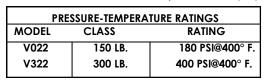
models V022 & V322

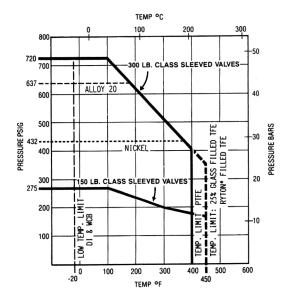


DIMENSIONS and WEIGHTS

SIZE	150Lb. 300 lb.	Flange Holes No. Size	Α	В	G	Н	Р	PŢ	Weight
1/2	V022	4 .625 2.375	4-1/4	3-1/2	4-9/16 4	1-	8	8-1/2	8
	V322	4 .625 2.625	5-1/2	4-5/8	-9/16	15/16	8	8-1/2	11
3/4	V022	4 .625 2.750	4-5/8	3-7/8	4-9/16 4	2-1/8 2	8	8-1/2	9
	V322	4 .750 3.250	6	4-5/8	-9/16	-3/8	8	8-1/2	12
1	V022	4 .625 3.125	5	4-1/4	4-11/16	2-1/42	8	8-1/2	10
	V322	4 .750 3.500	6-1/2	4-7/8	4-11/16	-9/16	8	8-1/2	13
1-1/2	V022	4 .625 3.875	6-1/2	5	6-5/16 6	2-3/4 3	14	14-7/8	19
	V322	4 .875 4.500	7-1/2	6-1/8	-5/16	-1/4	14	14-7/8	25.5
2	V022	4 .750 4.750	7	6	6-5/8 6	3-1/8 3	14	14-7/8	24.5
	V322	8 .750 5.000	8-1/2	6-1/2	-5/8	-3/8	14	14-7/8	31.5
3	V022	4 .750 6.000	8	7-1/2	7-1/4 7	3-3/4 4	23	23-7/8	37.5
	V322	8 .875 6.625	11	8-1/4	-1/4	-1/8	23	23-7/8	51
4	V022 V322	8 .750 7.500 8 .875 7.875	9 12	9 10	6-9/16* 6-9/16*	4-1/25	24** 24**	25** 25**	59+ 86+
6	V022 V322	8 .875 9.500 12 .875 10.625	10-1/2 15-7/8	11 12-1/2	7-5/16* 7-5/16*	5- 1/2 6-	**	**	112+ 164+
8	V022 V322	8 .875 11.750 12 1.000 13.000	11-1/2 16-1/2	13-1/2 15	10-3/8* 10-3/8*	7 7-7/8	**	**	240+ 315+
10	V022 V322	12 1.000 14.250 16 1.125 15.250	13 18	16 17-1/2	11-3/8* 11-3/8*	8-1/4 9-1/8	**	**	318+ 411+
12	V022 V322	12 1.000 17.000 16 1.250 17.750	14 CONSULT	19 FACTORY	12-9/16*	9-5/8	**	**	390+

- G measured to the top of the plug shaft.
- Gear operator recommended for 4" size and larger.
- Valve only. Add 38 lb. for gear operator.





SERVICE RECOMMENDATIONS

Chem-Plug® V-ring top seal sleeved valves have been designed for those applications where the seal around the valve stem must be adjustable. With special preparation these valves can be used for severe and hazardous chemical service such as oxygen and chlorine

FEATURES

Chem-Plug® models V022 and V322 valves are designed for 150 lb. and 300 lb. ANSI specifications respectively for temperatures ranging from -20°F to 400°F. The bidirectional flow allows more latitude in the design and installation of piping systems. The V022 and V322 valves have a true stuffing box for top seal packing and gland adjustment to reduce leakage by the stem to zero when properly adjusted and maintained. Chem-Plug® sleeved valves with V-ring top seals are adjusted at the factory to hold one and one half times the rated pressure of the valve.

Packing can be adjusted to compensate for normal wear. Like all Chem-Plug® valves, the plug can be adjusted separately from the top seal so that the packing does not have to be readjusted.

The packing can be serviced of replaced without removing the valve from the line.

The solid sleeve is compression molded in virgin PTFE and then sintered. Ryton is also available. This method provides optimum density which minimizes chemical permeation.

Raised sealing rings are cast 360° around the ports for positive in-line sealing. Blow-out lips are cast adjacent to the port openings to prevent sleeve rotation and reduce cold sleeve flow.

The plug is grounded through the thrust washer and plug adjust-

All flanged Chem-Plug® valves meet the face to face specifications of API 6D (short pattern), API gate valve standard, ANSI B16.10, and ANSI 16.34.

OPERATORS

Wrench operators are standard on all sizes through 3"; manual gear operators are recommended on 4" and 6" sizes. Cast mounting pads are provided on the flanges for rigid mounting of pneumatic, hydraulic, and electric actuators. The pads can be drilled and tapped when specified.

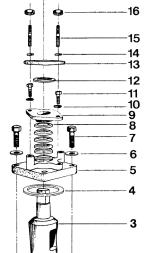
TESTING

Each Chem-Plug® valve is tested for seat leakage according to API Standard 598.





models **V022 & V322**



BILL OF MATERIALS

PART NO.	PART	DUCTILE IRON	CARBON STEEL	OTHER ALLOYS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BODY SLEEVE PLUG COVER GASKET COVER LOCK WASHER COVER BOLT V-RING PACKING PACKING GLAND LOCK WASHER GLAND SCREW THRUST DISC PLUG ADJUSTER LOCK WASHER ADJUSTER STUD HEX NUT	D.I.A. 395 PTFE D.I./ ENP PTFE D.I.A. 395 STEEL B7 STEEL PTFE D.I.A. 395 STEEL STEEL CARBON STEEL WCB STEEL	WCB PTFE D.I./ ENP PTFE WCB STEEL B7 STEEL PTFE WCB STEEL STEEL STEEL CARBON STEEL WCB STEEL	AS SPECIFIED PTFE AS SPECIFIED PTFE AS SPECIFIED STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL CARBON STEEL AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL AS SPECIFIED STAINLESS STEEL

MODEL NUMBER CODES			MATERIAL CODES				SPECIAL FEATURES
ANSI Class	PORTS	DESIGN and END CONNECTION	BODY MATERIAL	PLUG MATERIAL	SLEEVE MATERIAL	OPERATORS	
	2 = 2 Way 3 = 3 Way	2 = Sleeved flanged end 3 = Sleeved flanged end, jacketed 4 = Sleeved screwed end 5 = Sleeved socket weld end	K = SS, CF8 L = SS, CF8M M = CD4MCU	$V = \text{Ductile Iron}^3$ $K = SS, CF8$ $L = SS, CF8M$ $M = CD4MCU$ $N = Alloy 20$ $P = Monel$ $Q = \text{Hastelloy B}$ $R = \text{Hastelloy C}$ $Y = \text{Inconel}$ $S = \text{Special}$	F = PTFE R = Ryton* U = UHMWPE T = Glass filled TFE	0 = None 1 = Wrench 2 = Gear, Manual 3 = Electric 4 = Pneumatic 5 = Hydraulic 6 = Special 7 = Wrench with locking device 8 = Gear with locking device 9 = Gear with chain wheel	O = None DT = Drilled, Tapped for actuators DB = Double block and bleed CH = Chlorine prepared OX = Oxygen prepared FS = Grafoil top seal Fire safe (V series) X = Other)specify)**

^{*} Phillips Petroleum Trademark ** Give a complete, accurate description of the special feature when ordering.

³ Electroless nickel plated

Example of Ordering Code:

V022-JLF1-0

This is an example of a V-ring top seal, 150Lb. ANSI, 2 Way, flanged end, sleeved plug valve with a carbon steel body, stainless steel plug, PTFE sleeve, wrench operator, and no special features

