

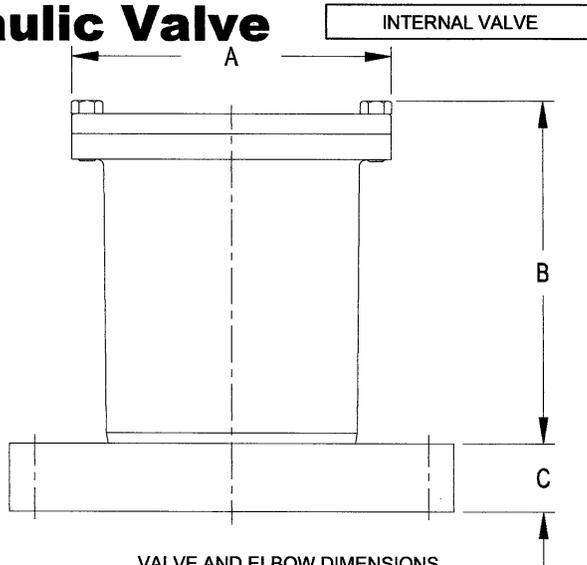
# Western Pacific Products, Inc.

*Anything In Or On Your Tank – Ready to Ship*

*Over 8,000 Part Numbers – Over 26,000 Square Feet of Warehouse – We Ship Worldwide*

## Chemical Hydraulic Valve

- COMPLETELY INTERNAL**
- REPLACEABLE TEFLON SEAT**
- HYDRAULICALLY OPERATED**
- HEAVY MOUNTING FLANGE**



VALVE AND ELBOW DIMENSIONS

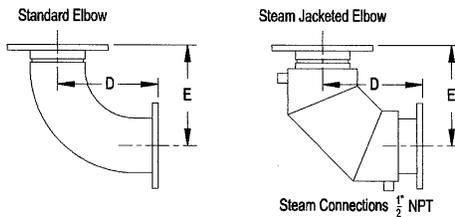
Size	A	B	C	D	E	Inlet Flange			Outlet Flange		
						O.D.	B.C.	N.H.	O.D.	B.C.	N.H.
4x4	5 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	8 <sup>11</sup> / <sub>32</sub>	8 <sup>11</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	8 <sup>9</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>16</sub>
4x3				4 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>4</sub>				5 <sup>5</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>16</sub>

The Chemical Internal Hydraulic Valve is designed for use for applications where a standard Chemical Hydraulic Valve would prove impracticable. Elbow supplied with shear section. A heavy mounting flange is provided to insure a flat surface for improved gasketing and positive seating of valve. Hydraulic connection (1/8" NPT) and air bleed are conveniently located on outside of mounting flange.

Note: Mounting pad No. MP16914SS is recommended to install valve and elbow, see Section 40. For Hydraulic pump and distributor, see page 3B.

Note: Teflon Envelope Gasket G27229TF-MIL is recommended for use between valve and outlet elbow. See Section 40, Page 2A for dimensions.

Working Pressure 50 PSI Max.  
Temperature 365°F Max.



Description	Material	Wt.	Assembly No.
Internal Hydraulic Valve	Stnls 316	31#	CH45843SST

Valves are available with various replaceable type seats by adding suffix to standard assembly numbers.

Suffix "014" indicates Teflon Seat w/ Kalrez O-Ring.

Suffix "016" indicates Kalrez Seat.

Suffix "017" indicates Teflon Seat w/ Double Tef-Sil O-Ring.

Size	Style Description	Material	Wt.	Assembly No.
4x4	90° Standard	Stnls 316	11.8#	CH16859SS
4x3	Elbow Assembly	Stnls 316	9.4#	CH26165SS

4x4	90° Steam Jacketed	Stnls 316	20#	CH16826SS
4x3	Elbow Assembly	Stnls 316	13.7#	CH26166SS

Steam jacket rated at 150 psi maximum working pressure.

**Betts**<sup>™</sup>  
INDUSTRIES, INC.  
WARREN, PA.

**800-677-3711**

Signal Hill, (L.A.) CA

(562) 490-0030 • Fax (562) 490-0091

West Sacramento, CA

(916) 371-1622 • Fax (916) 371-4792

Dallas/Fort Worth, TX

(817) 740-8077 • (817) 740-1332

Portland, OR

(503) 221-0335 • Fax (503) 221-0911

www.tankparts.com

2-10

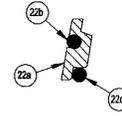
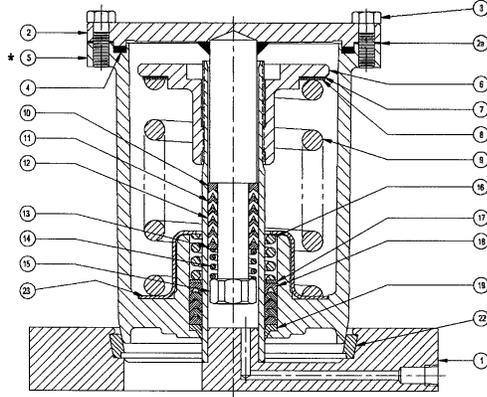
# Western Pacific Products, Inc.

*Anything In Or On Your Tank – Ready to Ship*

*Over 8,000 Part Numbers – Over 26,000 Square Feet of Warehouse – We Ship Worldwide*

**PARTS LIST**

## Chemical Hydraulic Valve



Seat w/ O-rings

\* 27996LC Includes items 5, 16 & 23

Replacement Kit of Teflon Parts

CH17827TF-Includes items 2a,4,7,12,18,19 & 22

CH19030TF-Includes items 2a,4,7,12,18,19 & 22a

No.	Description	Req.	Material	Part No.
1	Seat Flange Assembly	1	316 Stnls	45653SS
2	Cover Assembly	1	316 Stnls	17294SS
2a	Gasket	1	Teflon	19720TF
3	Cap Screw	12	316 Stnls	9Q3305
4	Gasket	1	Teflon	17295TF
5	Disc Assembly	1	316 Stnls	27996LC
6	Spring Retainer	1	316 Stnls	25887SS
7	Shim-Spring	1	Teflon	16867TF
8	Shim-Spring	1	Stnls	16866SL
9	Main Spring	1	316 Stnls	16890SS
10	Female Adapter-Piston	1	304 Stnls	16732SL
11	Separator Rings-Piston	4	304 Stnls	15628SL
12	Packing Rings-Piston	Set	Teflon	15634TF
13	Male Adapter-Piston	1	304 Stnls	15629SL
14	Spring-Piston	1	316 Stnls	15652SS

No.	Description	Req.	Material	Part No.
15	Retainer Nut-Piston	1	304 Stnls	15630SL
16	Spring-Stuffing Box	1	316 Stnls	19616SS
17	Follower Washer-Stuffing Box	1	316 Stnls	19594SS
18	Packing Rings-Stuffing Box	Set	Teflon	15759TF
19	Wiper	1	Teflon	15862TF
22	Replaceable Seat	1	Teflon	16644TF
			Kalrez	16644KA
22a	Replaceable Seat w/ O-Rings	1	Tef-Sil	18897TFTS
			Kalrez	18897TFKA
22b	Seat O-Ring only	1	Tef-Sil	18246TS
			Kalrez	18246KA
22c	O-Ring	1	Tef-Sil	18834TS
23	Retainer-Packing	1	316 Stnls	19446SS

### INSTALLATION INSTRUCTIONS

Install valve to a flat mounting surface. Connect hydraulic line to 1/8 NPT connection on O.D. of seat flange leaving fitting loose. Operate pump until all air is bled from system. Tighten fitting. Check all connections for leaks. Refill pimp reservoir.

### MAINTENANCE INSTRUCTIONS

**TO REPLACE TEFLON SEAT:** Loosen cap screws No.3 and remove cover assembly No.2. Spring Retainer No.6 can now be unscrewed with spanner wrench to unload spring No.9. Valve is designed so spring will be unloaded before retainer is completely unscrewed from stem. Remove disc assembly No.5. DO NOT pry under sealing edge of disc assembly. It is recommended that a new set of packing No.18 be installed whenever valve is disassembled. If packing is not to be replaced care should be taken when removing disc assembly not to damage packing on threads of stem. If packing is to be replaced, remove Packing Retainer, Stuffing Box Spring and Follower Washer No's. 23,16 & 17. Install new set of packing and replace Part No's. 23,16 & 17. Use care not to damage packing on threads when replacing disc assembly. With disc assembly removed from stem, remove damaged teflon seat No.22 by cutting with a sharp knife or blade. Do not damage tapered lip on seat flange. Clean groove of all foreign material. Place new teflon seat into groove on one side and carefully force seat into groove using both thumbs. Seat will snap into groove when completely in place. Reassemble valve by reversing the above procedure. Check that valve opens and closes and seats properly before installing in tank. We suggest the use of NEVER-SEEZ anti-seize and lubricating compound or equal on all threads.

**WARNING** Use only genuine Betts Industries Inc. replacement parts. Use of substitute parts can impair the proper functioning of the Valve.



## 800-677-3711

**Signal Hill, (L.A.) CA**

(562) 490-0030 • Fax (562) 490-0091

**West Sacramento, CA**

(916) 371-1622 • Fax (916) 371-4792

**Dallas/Fort Worth, TX**

(817) 740-8077 • (817) 740-1332

**Portland, OR**

(503) 221-0335 • Fax (503) 221-0911

[www.tankparts.com](http://www.tankparts.com)