

# Quick Clean Chemical Hydraulic Valve

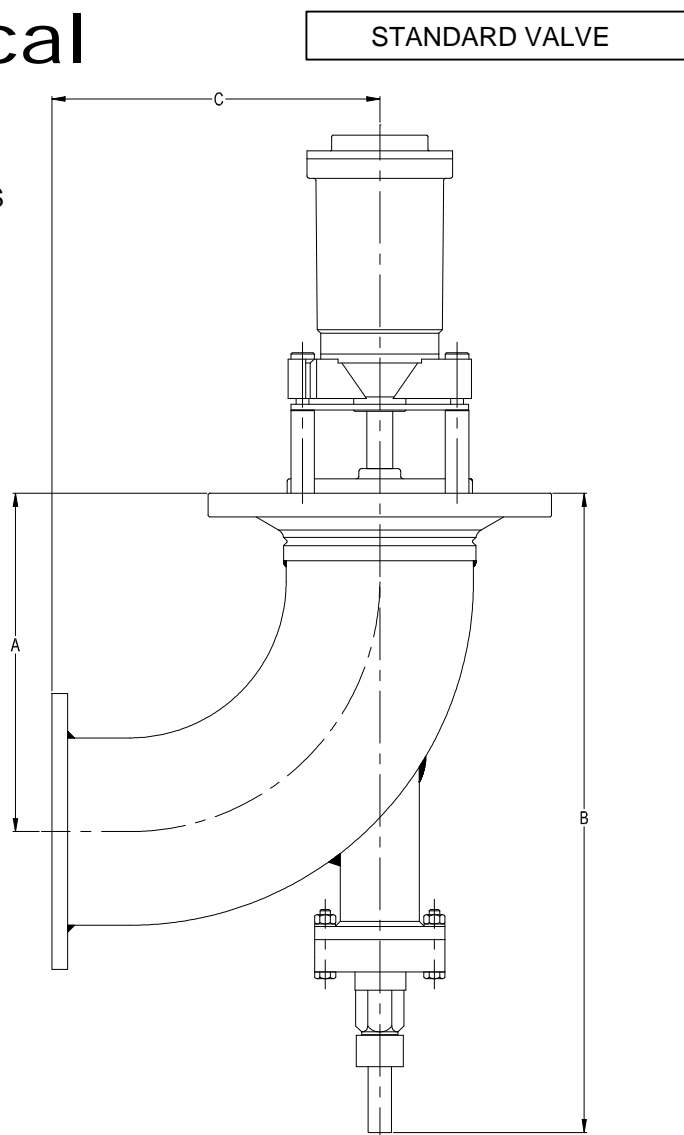
DESIGNED FOR HANDLING A VARIETY OF PRODUCTS  
US PATENT 4,934,403

SHEAR SECTION PROVIDED

QUICK DISASSEMBLY

O-RING SEAT

HYDRAULICALLY OPERATED



The Quick Clean Chemical Hydraulic Valves are designed to meet the exacting requirements of today's chemical transportation industry. The valves feature quick removable spring housing and hydraulic actuator units for easy inspection and maintenance. Resilient Teflon® encapsulated silicone core o-ring seals and the tapered seat provide positive sealing and product retention. An indicator rod shows whether the valve is open.

Maximum Allowable Working Pressure: 50 psig  
Maximum Temperature: 265°

Maximum Hydraulic Pressure: 3000 psig  
Betts Pump HP19165MS with 3000 psig bypass recommended.

VALVE DIMENSIONS

Size	A	B	C	Inlet Flange			Outlet Flange		
				O.D.	B.C.	N.H.	O.D.	B.C.	N.H.
4x3	4 <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	8- <sup>9</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	8- <sup>7</sup> / <sub>16</sub>
4x4	8 <sup>1</sup> / <sub>8</sub>	15	7 <sup>7</sup> / <sub>8</sub>				6 <sup>5</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	8- <sup>7</sup> / <sub>16</sub>
4x3*	6 <sup>5</sup> / <sub>32</sub>	8 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>				5 <sup>5</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	8- <sup>7</sup> / <sub>16</sub>

Size	Style Description	Material	Wt.	Assembly No.
4x3	90° Elbow	Stnls 316	23.5	CH46861SSTS
4x4	90° Elbow	Stnls 316	25.0	CH46874SSTS
4x3*	Special 90° Elbow	Stnls 316	24.0	CH46870SSTS

NOTE: A flat mounting surface must be provided for valve seat flange. We recommend mounting pad No. MP19752LC, see Section 40. For hydraulic pump and distributor, see Section 35 Page 3B.

\*Special 4x3 valve designed as a direct replacement on tanks plumbed for Betts Internal Chemical Hydraulic valves with 4x3 shear elbows (see Section 35 Page 5A)

## PARTS LIST

# QUICK CLEAN CHEMICAL HYDRAULIC VALVE

No.	Description	Req.	Material	Part No.
1	Seat O-Ring	1	Tef/Sil	19033TS
3	Stem & O-Ring Holder Assembly	1	Stnls 316	19253SS
3a	Stem & O-Ring Holder	1	Stnls 316	19254SS
3b	Retainer Plate	1	Stnls 316	27443SS
3c	Cap Screws	4	Stnls 316	9Q4174
4	Spider	1	Stnls 316	27174SS
5	Spring Housing Cap	1	Stnls 316	19080SS
6	Spring Washer	1	Stnls 316	18480SS
7	Spring Housing	1	Stnls 316	27371SS
8	Spring	1	Stnls 316	19413SS
9	Housing Cap O-Ring	1	Tef/Sil	19115TS
10	Retainer Ring	1	Stnls 302	9Q4923
11	Washer	1	Stnls 316	19083SS
12	Base O-Ring	1	Tef/Sil	17730TS
13	Packing Set	1	Teflon	8N2833
13a	Packing Spring	1	Stnls 302	19050SL
14	Wiper	1	Teflon	18172TG
15	Bushing	1	Teflon	18467TG
16	Spider Retaining Screw	4	Stnls 316	9Q5841
17	Retainer Bolt	4	Stnls	9Q4919
18	Lockwasher	4	Stnls	9Q5844
19	Retainer Nut	4	Stnls	9Q5805
20	Barrel Cap O-Ring	1	Tef/Sil	18858TS
21	Hyd. Actuator-4x3 Model	1	Stnls	35233SSTS
	Hyd. Actuator-4x4 Model	1	Stnls	35224SSTS
	Hyd. Actuator-Spec. 4x3	1	Stnls	35228SSTS

Spring Housing & Spider Assembly 35232SSTS

Includes items 4-16

Spring Housing Seal Replacement Kit CH19157TF

Includes items 9,12,13,14,15

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

CONSULT MAINTENANCE MANUAL BEFORE ATTEMPTING REPAIRS. MANUALS AVAILABLE UPON REQUEST.

