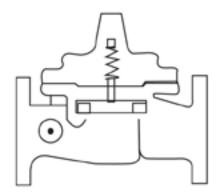
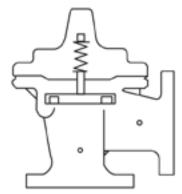


414-01

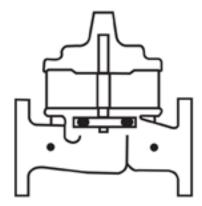
Place this manual with personnal responsible for maintenance of this valve



## INSTALLATION



# **OPERATION**



## **MAINTENANCE**



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SEE

			SHEET 2 OF 2	
C	CLA-VAL CO. MENTONY 1720 3 CALIFORNIA	414-01	86620	D D
			DESIGN	
	REMOTE CONTROL VALVE FOR FIRE DELUGE S	EDVICE	DRAWN 10-01-80	MGR
(WITH	CDHS-3C PRESSURE DIFFERENTIAL CONTROL TO		CHK'D. 10-16-80	K8
`.	WINE HOOM DOOD IN DREACET DOWNSTREAM DOES		APP'D. 10-17-80	KB

SCALEDIST CODE

ALL HIGH

002

#### **OPERATING DATA**

#### I. REMOTE CONTROL FEATURE:

DIFFERENTIAL CONTROL (3) IS A DIAPHRAGM ACTUATED, SNAP ACTION, 2 POSITION CONTROL THAT RESPONDS TO PRESSURE SENSED AT THE MAIN VALVE (1) OUTLET (REMOTE CONTROL AIR PRESSURE). WHEN REMOTE CONTROL AIR PRESSURE DROPS BELOW THE SETTING OF CONTROL (3), CONTROL (3) SHIFTS INTERCONNECTING PORTS "C" AND "D". THIS RELIEVES AUXILIARY HYTROL AND MAIN VALVE COVER CHAMBERS TO ATMOSPHERE AND THE MAIN VALVE OPENS WIDE.

ITEM (	3) CDHS3C PORTS CONNECTED	AUXILIARY HYTROL (5) POSITION	MAIN VALVE (1) POSITION
SET	''S'' & ''C''	CLOSED	CLOSED
TRIPPED	"C" & "D"	OPEN	OPEN

#### NOTE:

ITEM (3) CDHS-3C DIFFERENTIAL CONTROL MUST BE MANUALLY RESET TO CLOSE THE MAIN VALVE.

#### 11. CHECK LIST FOR PROPER OPERATION

Į	SYSTEM VALVES OPEN UPSTREAM AND	DUWNSIKEAM.
ĺ	1 AIR REMOVED FROM THE MAIN VALVE	COVER AND PILOT SYSTEM AT

POINTS.

RAP. F. A. PRINTED IN U. S. A.

REVISION RECORD

DATE

The state of th

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 $- \, \mathsf{MODEL} - X46$ 

# Flow Clean Strainer





- Self Scrubbing Cleaning Action
- Straight Type or Angle Type

The Cla-Val Model X46 Strainer is designed to prevent passage of foreign particles larger than .015". It is especially effective against such contaminant as algae, mud, scale, wood pulp, moss, and root fibers. There is a model for every Cla-Val. valve.

The X46 Flow Clean strainer operates on a velocity principle utilizing the circular "air foil" section to make it self cleaning. Impingement of particles is on the "leading edge" only. The low pressure area on the downstream side of the screen prevents foreign particles from clogging the screen. There is also a scouring action, due to eddy currents, which keeps most of the screen area clean.

D

1-3/4

2-1/4

2-1/2

2-1/2

3

3-3/8

4

4-1/4

4-1/2

4-1/4

**B** (NPT)

1/8

1/4

3/8

1/2

1/2

3/4

3/4

1

1

A (NPT)

1/4

3/8

3/8

1/2

3/8

3/4

1

1/2

X46A Straight Type A (In Inches)

Ε

3/4

1

1

1-1/4

1-1/4

2

2

2-3/4

2-3/4

2-3/4

G

1/2

3/4 3/8

7/8 1/2

7/8 3/4

1-1/8

1

1-1/2 7/8

1-3/8 7/8

1-3/4 7/8

1-3/8 7/8

1/2

3/4

7/8

1/2

1

1/2

1

1/2

1-1/4

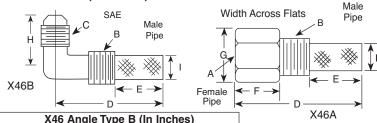
1/2

1/4

3/4

7/8

#### **Dimensions** (In Inches)



	<b>A</b> 4	HO AII	gie Type	D (III II	nches)	
	B(NPT)	C(S	AE) <b>D</b>	Е	Н	I
	1/8	1/4	1-3/8	5/8	7/8	1/4
	1/4	1/4	1-3/4	3/4	1	3/8
	3/8	1/4	2	7/8	1	1/2
	3/8	3/8	1-7/8	7/8	1	1/2
ľ	1/2	3/8	2-3/8	1	1-1/4	5/8
-						

# When Ordering, Please Specify:

- Catalog Number X46
- Straight Type or Angle Type
- Size Inserted Into and Size Connection
- Materials

#### **INSTALLATION**

The strainer is designed for use in conjunction with a Cla-Val Main Valve, but can be installed in any piping system where there is a moving fluid stream to keep it clean. When it is used with the Cla-Val Valve, it is threaded into the upstream body port provided for it on the side of the valve. It projects through the side of the Main Valve into the flow stream. All liquid shunted to the pilot control system and to the cover chamber of the Main Valve passes through the X46 Flow Clean Strainer.

#### INSPECTION

Inspect internal and external threads for damage or evidence of cross-threading. Check inner and outer screens for clogging, embedded foreign particles, breaks, cracks, corrosion, fatigue, and other signs of damage.

#### DISASSEMBLY

Do not attempt to remove the screens from the strainer housing.

#### **CLEANING**

After inspection, cleaning of the X46 can begin. Water service usually will produce mineral or lime deposits on metal parts in contact with water. These deposits can be cleaned by dipping X46 in a 5-percent muriatic acid solution just long enough for deposit to dissolve. This will remove most of the common types of deposits. Caution: use extreme care when handling acid. If the deposit is not removed by acid, then a fine grit (400) wet or dry sandpaper can be used with water. Rinse parts in water before handling. An appropriate solvent can clean parts used in fueling service. Dry with compressed air or a clean, lint-free cloth. Protect from damage and dust until reassembled.

#### REPLACEMENT

If there is any sign of damage, or if there is the slightest doubt that the Model X46 Flow Clean Strainer may not afford completely satisfactory operation, replace it. Use Inspection steps as a guide. Neither inner screen, outer screen, nor housing is furnished as a replacement part. Replace Model X46 Flow Clean Strainer as a complete unit.

When ordering replacement Flow-Clean Strainers, it is important to determine pipe size of the tapped hole into which the strainer will be inserted (refer to column A or F), and the size of the external connection (refer to column B or G).

SHEET 1 OF CVCL 1 ② 3 4 DIST CODE 007A CATALOG NO. DRAWING NO. REV 09-15-98 9-29-11 NEWPORT BEACH, CALIFORNIA X58C 48834 AΡ 10-18-94 DESIGN DRAWN JC 12-3-85 X58C RESTRICTION ASSEMBLIES JC 12-4-85 CHK'D APV'D CH 12-11-85 AK 峕 15043) **RESTRICTION -**TUBE CONNECTOR **PLUG** (ECO ORIFICE Ø ADDED PN 48834-05F (NED 43663) 75779) & 64673H (NED PN 68565B 48834-06D (NPT) PRESS FLUSH WITH END OF TUBE CONNECTOR REINSTATED A ADDED ¥₩ ₽ 11-18-93 DAI \*79730J PRESS TO ₽ SHOULDER MANUALL NOTES: REVISE \*FOR IDENTIFICATION, THESE STOCK NO'S ARE TO BE STAINED BLUE WITH 74234-03. NOT 2. \*\*FOR IDENTIFICATION, THESE STOCK NO'S ARE TO BE STAINED RED 8 WITH 74234-05. SEE DWG 76740 FOR STAINLESS STEEL X58C. 3. RECORD SEE SHEETS 3 & 4 FOR UL APPROVED DRAWING. (ECO REVISION CAD 글 REVISION 8 CAD REDRAWN

A-AK SEE

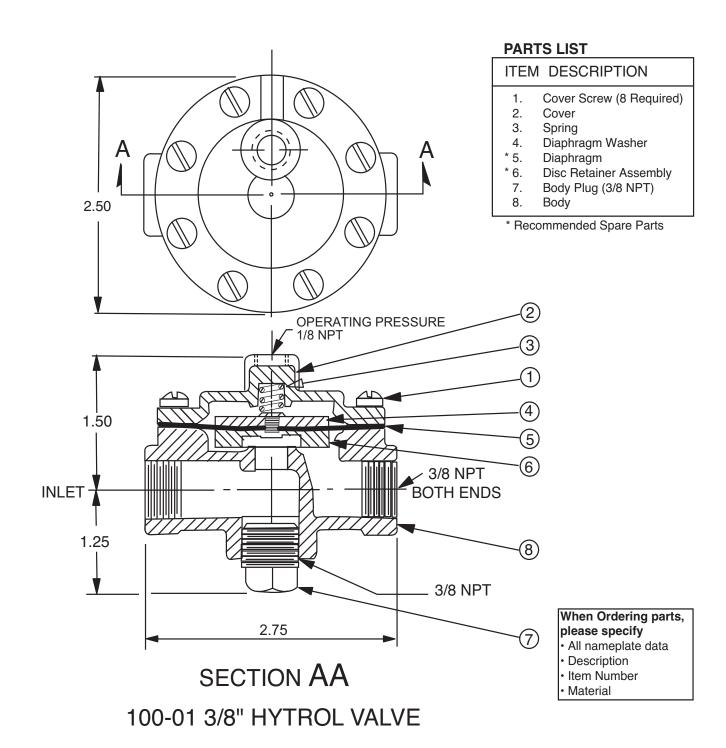
DIST CODE 007A CVCL 1 (2) 3 4 CATALOG NO. DRAWING NO. REV NEWPORT BEACH, CALIFORNIA X58C 48834 AΡ **DESIGN** DRAWN JC 12-3-85 X58C RESTRICTION ASSEMBLIES CHK'D JC 12-4-85 APV'D CH 12-11-85 TUBE CONNECTOR RESTRICTION PLUG X58C SIZE STOCK NO. ORIFICE DIA MATFRIAL MATERIAL TUBE X NPT 37° FLARE .125 (1/8) \*\*44734C 3/8 X 3/8-18 NPT ALUMINUM S. STEEL 45° FLARE .031 (1/32) 1/4 X 1/8-27 NPT \*37814B **BRASS** S. STEEL 1/4 X 1/8-27 NPT \*80500C **BRASS** .062 (1/16) S. STEEL 3/8 X 1/8-27 NPT \*67739D **BRASS** .040 S. STEEL 3/8 X 3/8-18 NPT (1/16)\*64672K BRASS .062 S. STEEL 3/8 X 3/8-18 NPT .094 (3/32)S. STEEL \*99329-01D BRASS .125 \*\*79730J 1/2 X 1/2-14 NPT (1/8)S. STEEL BRASS \*\*48834-05F 3/8 X 3/8-18 NPT .125 (1/8) S. STEEL **BRASS** .031 1/4 X 1/8-27 NPT (1/32)\*85484E **BRASS DELRIN** 1/4 X 1/8-27 NPT .040\*85486K BRASS DELRIN .125 (1/8) \*\*48834-03A 1/4 X 1/8-27 NPT **BRASS DELRIN** Δ \*48834-04J 1/4 X 1/8-27 NPT **BRASS** .093 **DELRIN** 3/8 X 1/8-27 NPT .031 (1/32) \*88409-01G **BRASS DELRIN** 늄 .052 3/8 X 1/8-27 NPT \*88409J BRASS DELRIN MANUALL 3/8 X 1/8-27 NPT .062 (1/16)\*42346H BRASS DELRIN .125 (1/8)3/8 X 1/8-27 NPT \*\*48834-01E **BRASS** DELRIN REVISE 3/8 X 1/4-18 NPT .062 (1/16)\*42775H **BRASS** DELRIN 3/8 X 1/4-18 NPT .156 (5/32)\*\*63604D **BRASS DELRIN** NOT 3/8 X 3/8-18 NPT .031 (1/32)\*10253D BRASS DELRIN 8 3/8 X 3/8—18 NPT **BRASS** .062 (1/16)\*46946A DELRIN 1 \*\*64673H 3/8 X 3/8-18 NPT **BRASS** .125 (1/8) DELRIN RECORD .094 (3/32) \*68565B 3/8 X 3/8-18 NPT BRASS DELRIN 3/8 X 3/8-18 NPT .188 (3/16)REVISION \*\*43302K BRASS DELRIN \*\*12900H .125 (1/8)1/2 X 1/2-14 NPT BRASS DELRIN (3/16) $1/2 \times 1/2 - 14 \text{ NPT}$ .188 CAD \*\*48834-02C BRASS **DELRIN** SHEET **BRASS** .250 (1/4)\*\*48834-06D 1/2 X 1/2-14 NPT DELRIN SEE

SHEET 2 OF

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# -MODEL — 100-01 3/8"-1 Hytrol Valve

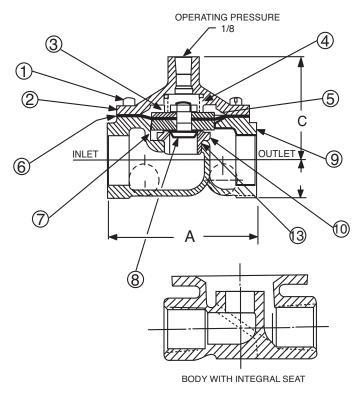




# -MODEL-100-01

# 1/2"-3/4"-1" Hytrol Valve

#### 100-01 3/4" & 1/2" Hytrol Valve



#### **PARTS LIST**

ITEM	DESCRIPTION
1	COVER SCREW
2	COVER
3	SPRING
4	STEM NUT
5	DIAPHRAGM WASHER
* 6	DIAPHRAGM
* 7	DISC RETAINER ASSEMBLY
8	DISC GUIDE & STEM
9	BODY
10	SEAT
11	NAMEPLATE
12	BODY PLUG HEX HD.
13	O-RING SEAT (FOR OLD STYLE BODY ONLY)

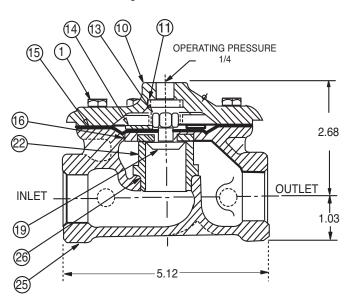
<sup>\*</sup> Recommended Spare Parts

	1/2	3/4
A	1-7/16	3-1/2
С (МАХІМИМ)	2-3/8	2-3/8
D	25/32	29/32

# When Ordering parts, please specify

- · All nameplate data
- Description
- Item Number
- Material

#### 100-01 1" Hytrol Valve



#### **PARTS LIST**

ITE	M DESCRIPTION
1	COVER SCREW
2	NAMEPLATE
3	NAMEPLATE SCREW
10	COVER
11	SPRING
13	STEM NUT
14	DIAPHRAGM WASHER
15	DIAPHRAGM
16	DISC RETAINER ASSEMBLY
19	DISC GUIDE
22	SEAT
24	BODY PLUG
25	BODY
26	O-RING, SEAT
* Re	commended Spare Parts



# Cla-Val Product Identification

### **How to Order**

#### **Proper Identification**

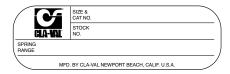
For ordering repair kits, replacement parts, or for inquiries concerning valve operation, it is important to properly identify Cla-Val products already in service by including all nameplate data with your inquiry. Pertinent product data includes valve function, size, material, pressure rating, end details, type of pilot controls used and control adjustment ranges.

#### **Identification Plates**

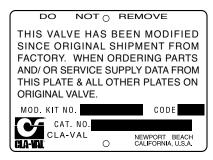
For product identification, cast-in body markings are supplemented by identification plates as illustrated on this page. The plates, depending on type and size of product, are mounted in the most practical position. It is extremely important that these identification plates are not painted over, removed, or in any other way rendered illegible.



This brass plate appears on altitude valves only and is found on top of the outlet flange.



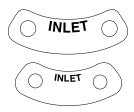
This tag is affixed to the cover of the pilot control valve. The adjustment range appears in the spring range section.



This aluminum plate is included in pilot system modification kits and is to be wired to the new pilot control system after installation.



This brass plate appears on valves sized 2<sup>1</sup>/<sub>2</sub>" and larger and is located on the top of the inlet flange.



These two brass plates appear on <sup>3</sup>/<sub>8</sub>", <sup>1</sup>/<sub>2</sub>", and <sup>3</sup>/<sub>4</sub>" size valves and are located on the valve cover.



These two brass plates appear on threaded valves 1" through 3" size or flanged valves 1" through 2". It is located on only one side of the valve body.



This brass plate is used to identify pilot control valves. The adjustment range is stamped into the plate.



This brass plate is used on our backflow prevention assemblies. It is located on the side of the Number Two check (2" through 10"). The serial number of the assembly is also stamped on the top of the inlet flange of the Number One check.



#### **HOW TO ORDER**

Because of the vast number of possible configurations and combinations available, many valves and controls are not shown in published product and price lists. For ordering information, price and availability on product that are not listed, please contact your local Cla-Val office or our factory office located at:

P. O. Box 1325 Newport Beach, California 92659-0325 (949) 722-4800 FAX (949) 548-5441

#### **SPECIFY WHEN ORDERING**

- Model Number
- · Globe or Angle Pattern
- Adjustment Range (As Applicable)
- · Valve Size
- Threaded or FlangedBody and Trim Materials
- Optional Features
- Pressure Class

#### UNLESS OTHERWISE SPECIFIED

- · Globe or angle pattern are the same price
- · Ductile iron body and bronze trim are standard
- · X46 Flow Clean Strainer or X43 "Y" Strainer are included
- CK2 Isolation Valves are included in price on 4" and larger valve sizes (6" and larger on 600 Series)

#### LIMITED WARRANTY

Automatic valves and controls as manufactured by Cla-Val are warranted for three years from date of shipment against manufacturing defects in material and workmanship that develop in the service for which they are designed, provided the products are installed and used in accordance with all applicable instructions and limitations issued by Cla-Val. Electronic components manufactured by Cla-Val are warranted for one year from the date of shipment.

We will repair or replace defective material, free of charge, that is returned to our factory, transportation charges prepaid, if upon inspection, the material is found to have been defective at time of original shipment. This warranty is expressly conditioned on the purchaser's providing written notification to Cla-Val immediate upon discovery of the defect.

Components used by Cla-Val but manufactured by others, are warranted only to the extent of that manufacturer's guarantee.

This warranty shall not apply if the product has been altered or repaired by others, Cla-Val shall make no allowance or credit for such repairs or alterations unless authorized in writing by Cla-Val.

## DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY

The foregoing warranty is exclusive and in lieu of all other warranties and representations, whether expressed, implied, oral or written, including but not limited to any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

Cla-Val shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product. Cla-Val shall not be liable for any damages or charges for labor or expense in making repairs or adjustments to the product. Cla-Val shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data and services. No representative of Cla-Val may change any of the foregoing or assume any additional liability or responsibility in connection with the product. The liability of Cla-Val is limited to material replacements F.O.B. Newport Beach, California.

#### **TERMS OF SALE**

#### ACCEPTANCE OF ORDERS

All orders are subject to acceptance by our main office at Newport Beach, California.

#### CREDIT TERMS

Credit terms are net thirty (30) days from date of invoice.

#### PURCHASE ORDER FORMS

Orders submitted on customer's own purchase order forms will be accepted only with the express understanding that no statements, clauses, or conditions contained in said order form will be binding on the Seller if they in any way modify the Seller's own terms and conditions of sales.

#### PRODUCT CHANGES

The right is reserved to make changes in pattern, design or materials when deemed necessary, without prior notice.

#### **PRICES**

All prices are F.O.B. Newport Beach, California unless expressly stated otherwise on our acknowledgement of the order. Prices are subject to change without notice. The prices at which any order is accepted are subject to adjustment to the Seller's price in effect at the time of shipment. Prices do not include sales, excise, municipal, state or any other Government taxes. Minimum order charge \$100.00.

#### RESPONSIBILITY

We will not be responsible for delays resulting from strikes, accidents, negligence of carriers, or other causes beyond our control. Also, we will not be liable for any unauthorized product alterations or charges accruing there from.

#### RISK

All goods are shipped at the risk of the purchaser after they have been delivered by us to the carrier. Claims for error, shortages, etc., must be made upon receipt of goods.

#### **EXPORT SHIPMENTS**

Export shipments are subject to an additional charge for export packing.

#### RETURNED GOODS

- Customers must obtain written approval from Cla-Val prior to returning any material.
- 2. Cla-Val reserves the right to refuse the return of any products.
- 3. Products more than six (6) months old cannot be returned for credit.
- 4. Specially produced, non-standard models cannot be returned for credit.
- Rubber goods such as diaphragms, discs, o-rings, etc., cannot be returned for credit, unless as part of an unopened vacuum sealed repair kit which is less than six months old.
- Goods authorized for return are subject to a 35% (\$100 minimum) restocking charge and a service charge for inspection, reconditioning, replacement of rubber parts, retesting, repainting and repackaging as required.
- Authorized returned goods must be packaged and shipped prepaid to Cla-Val, 1701 Placentia Avenue, Costa Mesa, California 92627.



#### **CLA-VAL**

PO Box 1325 Newport Beach CA 92659-0325 Phone: 949-722-4800 • Fax: 949-548-5441

#### CLA-VAL CANADA 4687 Christie Drive Beamsville, Ontario

Canada LOR 1B4
Phone: 905-563-4963
Fax: 905-563-4040
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#### **CLA-VAL EUROPE**

Chemin dés Mesanges 1 CH-1032 Romanel/ Lausanne, Switzerland Phone: 41-21-643-15-55 Fax: 41-21-643-15-50

www.cla-val.com

Represented By:



## -MODEL- REPAIR KITS

Complete Replacement Diaphragm Assemblies for 100-01 and 100-20 Hytrol Main Valves *For:* Hytrol Main Valves with Ductile Iron, Bronze Trim Materials—125/150 Pressure Class Only. FACTORY ASSEMBLED

Includes: Stem, Disc Guide, Disc, Disc Retainer, Spacer Washers, Diaphragm, Diaphragm Washer and Stem Nut.

Valve Size			n Assembly Number	Valve Size		Assembly Number
Size		100-01 100-2	100-20	OIZC	100-01	100-20
3/8"	(Also 81-01)	49097K	N/A	6"	40456G	33273E
1/2" - 3/4"	(Also 81-01)	C2518D	N/A	8"	45276D	40456G
1"		C2520K	N/A	10"	81752J	45276D
1 1/4"-1 1/2"		C2522 F	N/A	12"	85533J	81752J
2"		C2524B	N/A	14"	89067D	N/A
2 1/2"		C2523D	N/A	16"	89068B	85533J
3"		C2525J	C2524B	20"	N/A	89068B
4"		33273E	C2525J	24"	N/A	89068B

#### Repair Kits for 100-01/100-20 Hytrol Valves

For: Hytrol Main Valves—125/150 Pressure Class Only.

Includes: Diaphragm, Disc (or Disc Assembly) and spare Spacer Washers.

E	Buna-N <sup>®</sup> Star	ndard Mate	rial	V	iton (For KE	3 Valves)	
Valve		Rep	air Kit	Valve		Repa	ir Kit
Size		Stock	Number	Size		Stock N	lumber
		100-01	100-20			100-01	100-20
3/8"	(Also 81-01)	9169801K	N/A	3/8"	(Also 81-01)	9169806J	N/A
1/2" - 3/4"	(Also 81-01)	9169802H	N/A	1/2" - 3/4"	(Also 81-01)	9169807G	N/A
1"		9169803F	N/A	1"		9169808E	N/A
1 1/4" - 1 1/2"		9169804D	N/A	1 1/4" - 1 1/2"		9169809C	N/A
2"		9169805A	N/A	2"		9169810A	N/A
2 1/2"		9169811J	N/A	2 1/2"		9169817F	N/A
3"		9169812G	9169805A	3"		9169818D	9169810A
4"		9169813E	9169812G	4"		9169819B	9169818D
6"		9169815K	9169813E	6"		9169820K	9169819B
8"		9817901D	9169815K	8"		9169834A	9169820K
10"		9817902B	9817901D				
12"		9817903K	9817902B				
14"		9817904H	N/A				
16"		9817905E	9817903K				
20"		N/A	9817905E				
24"		9817906C	9817905E				

When ordering, please give complete nameplate data of the valve and/or control being repaired.

MINIMUM ORDER CHARGE APPLIES.

#### Repair Kits for 100-02/100-21 Powertrol and 100-03/100-22 Powercheck Main Valves

For: Powertrol and Powercheck Main Valves—125/150 Pressure Class Only

Includes: Diaphragm, Disc (or Disc Assembly) and O-rings and full set of spare Spacer Washers.

Valve	Kit Stock Number	Valve	Kit Stocl	k Number
Size	100-02	Size	100-02 & 100-03	100-21 & 100-22
3/" /8	9169901H	2½"	9169910J	N/A
½" & ¾"	9169902F	3"	9169911G	9169905J
1"	9169903D	4"	9169912E	9169911G
1¼" & 1½"	9169904B	6"	9169913C	9169912E
2"	9169905J	8"	99116G	9169913C
		10"	9169939H	99116G
		12"	9169937B	9169939H

#### Repair Kits for 100-04/100-23 Hy-Check Main Valves

For: Hy-Check Main Valves—125/150 Pressure Class Only

Includes: Diaphragm, Disc and O-Rings and full set of spare Spacer Washers.

Valve Kit Stock N		Kit Stock Number Valve		Kit Stock	Kit Stock Number		
Size	100-04	100-23	Size	100-04	100-23		
4"	20210901B	N/A	12"	20210905H	20210904J		
6"	20210902A	20210901B	14"	20210906G	N/A		
8"	20210903K	20210902A	16"	20210907F	20210905H		
10"	20210904J	20210903K	20"	N/A	20210907F		

24"

N/A

Larger Sizes: Consult Factory.

20210907F

Larger Sizes: Consult Factory.

#### Repair Kits for Pilot Control Valves (In Standard Materials Only)

Includes: Diaphragm, Disc (or Disc Assembly), O-Rings, Gaskets or spare Screws as appropriate.

	BUNA-N <sup>®</sup> (St	andard Material)		VITON (For KB	Controls)
Pilot Control	Kit Stock Number	Pilot Control	Kit Stock Number	Pilot Control	Kit Stock Number
CDB	9170006C	CFM-7	1263901K	CDB-KB	9170012A
CDB-30	9170023H	CFM-7A	1263901K	CRA-KB	N/A
CDB-31	9170024F	CFM-9	12223E	CRD-KB (w/bucking spring)	9170008J
CDB-7	9170017K	CRA (w/bucking spring)	9170001D	CRL-KB	9170013J
CDH-2	18225D	CRD (w/bucking spring)	9170002B	CDHS-2BKB	9170010E
CDHS-2	44607A	CRD (no bucking spring)	9170003K	CDHS-2FKB	9170011C
CDHS-2B	9170004H	CRD-18	20275401K	CDHS-18KB (no bucking spring)	9170009G
CDHS-2F	9170005E	CRD-22	98923G	102C-KB	1726202D
CDHS-3C-A2	24657K	CRL (55F, 55L)	9170007A		
CDHS-8A	2666901A	CRL/55L-60	9170033G		
CDHS-18	9170003K	CRL-4A	43413E		
CDS-4	9170014G	CRL-5 (55B)	65755B		
CDS-5	14200A	CRL-5A (55G)	20666E		
CDS-6	20119301A	CRL-18	20309801C		
CDS-6A	20349401C	CV	9170019F		
		X105L (O-ring)	00951E	Buna-N	®
CFCM-M1	1222301C	102B-1	1502201F	CRD Disc Ret. (Solid)	C5256H
CFM-2	12223E	102C-2	1726201F	CRD Disc Ret. (Spring)	C5255K
		102C-3	1726201F		

#### Repair Assemblies (In Standard Materials Only)

Control	Description	Stock Number
CF1-C1	Pilot Assembly Only	89541H
CF1-CI	Complete Float Control less Ball and Rod	89016A
CFC2-C1	Disc, Distributor and Seals	2674701E
CSM 11-A2-2	Mechanical Parts Assembly	97544B
CSM 11-A2-2	Pilot Assembly Only	18053K
33A 1"	Complete Internal Assembly and Seal	2036030B
33A 2"	Complete Internal Assembly and Seal	2040830J

When ordering, please give complete nameplate data of the valve and/or control being repaired. MINIMUM ORDER CHARGE APPLIES