hytek
hydrotechnologies

VALVOLE AQUAMATIC

AQUAMATIC VALVES

1

VALVOLE IDROPNEUMATICHE IN MATALLO / METAL DIAPHRAGM VALVES

V42

V42

CARATTERISTICHE GENERALI:
Le valvole nella versione standard sono normalmente aperte. Il coperchio ed il corpo valvola sono in ghisa. La membrana interna e gli o-ring sono in Buna, mentre le parti metalliche in acciaio e ottone. Gli attacchi sono disponibili da 3/4" a 3" (B.S.P.) filettati femmina e da 3" (compreso) fino a 6" sono disponibili in versione flangiata ASA class 125, o BSP 4504.

DATI TECNICI
- Temperatura massima di esercizio: _____ 65ºC (150ºF)
- Opzione acqua calda: _____ 120ºC (250ºF)
- Pressione di esercizio: _____ 8.6 bar (125 PSI)
- Portate: _____ vedi diagramma

SPECIFICHE PRODOTTO
- Materiale esterno di composizione: _____ Ghisa
- Parti interne: _____ Acciaio e ottone
- Attacchi filettati disponibili: 3/4" - 1" - $1^{1/4"}$ - $1^{1/2"}$ - 2" - $2^{1/2"}$ - 3"
- Attacchi flangiati disponibili: _____ 3" - 4" - 6"

APPLICAZIONI:
- Sistemi per trattamento delle acque
- Irrigazioni agricole
- Gestione carburanti
- Raffreddamento torri
- Sistemi per il controllo del livello
- Sistemi di lavaggio autoveicoli
- Sistemi di controllo per il vuoto
- Macchine idrauliche
- Sistemi di raffreddamento
- Separatori centrifughi

Per altre applicazioni, prego non esistate a contattare l' ufficio tecnico Hytek

OPZIONI:
- Applicazioni per acqua calda con membrana e tenute in materiale speciale, parti interne in acciaio.
- Normamlente chiusa
- Molla per l' assistenza alla chiusura
- Molla per l' assistenza all' apertura
- Limitatore di flusso

GENERAL FEATURES
Standard valves are normally open. Body and cap are of cast iron. Preformed stress-relieved diaphragm of Nitrile (Buna N) on Polyamide, and static seals are Nitrile, stainless steel and brass internal parts. Pipe sizes are 3/4 to 3-inch threaded (B.S.P.); 3-inch through 6-inch flanged drilled in accordance with ASA 16.1 class 125, or BSP 4504.

TECHNICAL SHEET:
- Maximum operating temperature: _____ 150ºF (65ºC)
- Option for Hot water applications: _____ 250ºF (120ºC)
- Working Pressure: _____ 125 PSI (8.6 bar)
- Flow rates: _____ see diagram

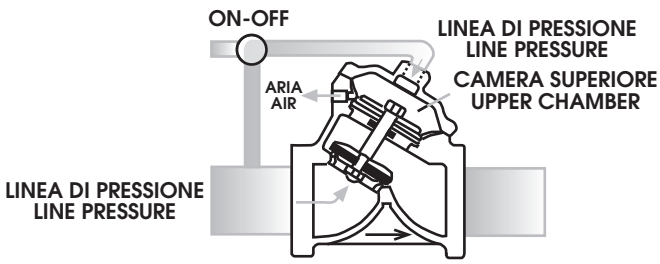
PRODUCT SPECIFICATIONS:
- External material: _____ Cast iron
- Internal parts: _____ Stainless steel and brass
- Threaded pipe size: _____ 3/4" - 1" - $1^{1/4"}$ - $1^{1/2"}$ - 2" - $2^{1/2"}$ - 3"
- Flanged pipe size: _____ 3" - 4" - 6"

APPLICATIONS:
- Water treatment process systems
- Agricultural Irrigation
- Fuel Handling
- Cooling Towers
- Level Control Systems
- Car Wash Systems
- Vacuum Control
- Machine Hydraulic
- Cooling Control
- Centrifugal Separators

For other applications please contact Hytek technical office

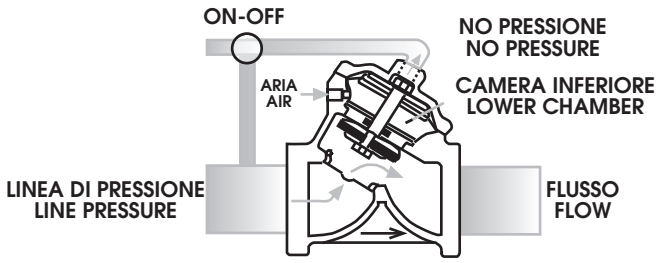
OPTIONS:
- Hot Water optional seal and diaphragm materials for special application, stainless steel internal parts.
- Normally closed
- Spring assist closed
- Spring assist open
- Limit stop

VALVOLA CHIUSA
VALVE CLOSE



Chiusura stagna: La chiusura viene ottenuta dirigendo la pressione dell' acqua (o una pressione equivalente) nella camera superiore. Questa pressione grazie alla membrana con superficie ampia, causa lo spostamento del gruppo pistone in chiusura. (La superficie della membrana è 1.3 volte maggiore della superficie del disco inferiore)
Drip-Tight Closing: Closure is obtained by directing line pressure or equivalent independent pressure into the upper chamber. This pressure on the large diaphragm area causes the valve disc to seal against the seat. (Ratio of diaphragm to disc area is 1.3 or greater.)

VALVOLA APERTA
VALVE OPEN



Apertura della valvola: quando si chiude la linea di pressione nella camera superiore, la valvola si apre spinta dalla pressione del fluido sul disco inferiore.
Full Open Operation: When closing pressure in upper chamber is relieved by venting the pilot line, the valve opens, positively, by line pressure on the disc.

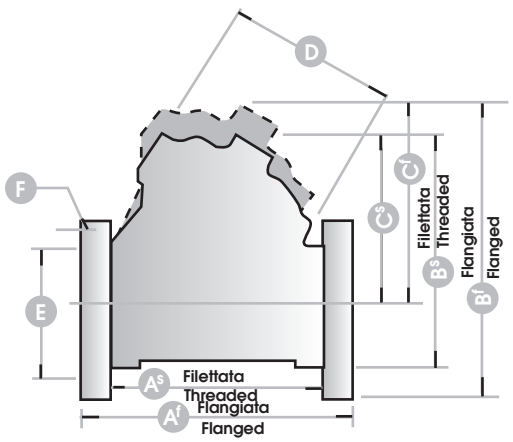
PORTATE E DIMENSIONI DELLE VALVOLE IN GHISA V42 / V42 FLOW THRU AND DIMENSIONS OF METAL DIAPHRAGM VALVES

	Attacco Pipe size	Cv3	Unità Unit	As	Af	Bs	Bf	Cs	Cf	D	E(1)	F(2)
Filettate / Threaded	3/4"	11.4	in.	3.69		4.25		3.75		2.75		
	1"	12.8	mm	94		108		95		70		
	1-1/4"	26.5	in.	4.75		5.37		4.00		3.50		
	1-1/2"	32.5	mm	121		137		102		89		
	2"	56	in. mm	6.62 168		7.25 184		5.37 137		4.87 124		
	2-1/2"	84	mm	187		203		146		140		
	3"	134	in. mm	9.00 229		9.75 248		6.75 171		7.25 184		
Flangiate / Flanged	3"	134	in. mm		10.62 270		10.75 273		7.00 178	7.25 184	6.00 152	0.75 19
	4"	275	in. mm		11.75 298		14.75 375		10.00 254	8.75 222	7.50 191	0.75 19
	6"	680	in. mm		17.00 432		19.00 483		13.50 343	15.75 402	9.50 241	0.87 2

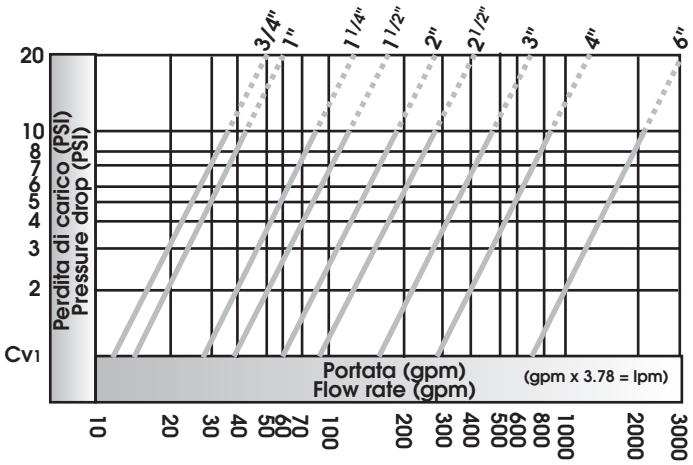
(1)Distanza fori
(1)Bolt circle diameter

(2)Diametro fori
(2)Bolt hole diameter

(3)CV = Portata in gpm d' acqua a 24°C con 0,07 di DP
(3)CV = Flow rate in gpm of water at 60°F @ 1psi pressure drop



PORTATE E PERDITE DI CARICO
FLOW AND PRESSURE DROPS

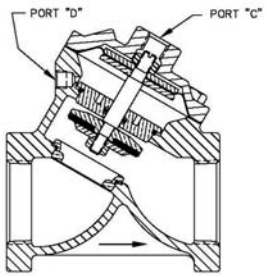


Portata massima in continuo alla velocità di 25 m/h
Maximum continous flow at velocity 20 ft/sec

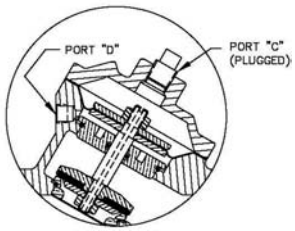
Portata massima intermittente alla velocità di 37,5 m/h
Maximum intermittent flow at velocity 30 ft/sec

CONFIGURAZIONE VALVOLE IDROPNEUMATICHE IN MATALLO - MODELLI STANDARD / METAL DIAPHRAGM VALVES CONFIGURATIONS - STANDARD MODEL

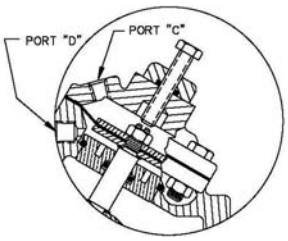
NORMALMENTE APERTA
NORMALY OPEN



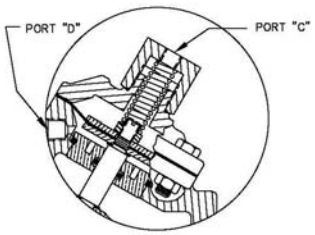
NORMALMENTE CHIUSA
NORMALY CLOSED



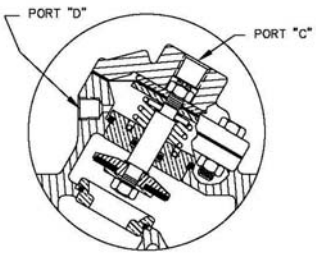
LIMITATORE DI PORTATA
LIMIT STOP



MOLLA ASSISTENZA ALLA CHIUSURA
SPRING ASSIST CLOSED



MOLLA ASSISTENZA ALL' APERTURA
SPRING ASSIST OPEN



SERIES	PIPE SIZE	SEAT DIAMETER IN. / CM.	SEAT AREA SQ. IN. / SQ. CM.	DIAPHRAGM AREA SQ. IN. / SQ. CM.	TOTAL STROKE IN. / CM.	DIAPHRAGM CHAMBER (VOLUME) CUBIC IN. / CUBIC CM.	Cv *	Kv **	FLOW RATE @ 10 FT./SEC. (3 M./SEC.) NOTE 1 GAL./MIN. / CU.M/HR	FLOW RATE @ 20 FT./SEC. (6 M./SEC.) NOTE 2 GAL./MIN. / CU.M/HR	PRESSURE DROP @ 10 FT./SEC. (3 M./SEC.) NOTE 1 P.S.I. / bar	PRESSURE DROP @ 20 FT./SEC. (6 M./SEC.) NOTE 2 P.S.I. / bar
V42B	3/4"	0.97 / 2.5	0.74 / 4.8	2.10 / 13.0	0.47 / 1.2	2.06 / 33.8	11.4	9.8	23 / 5	46 / 10	4.1 / 0.3	16.3 / 1.12
V42C	1"	0.97 / 2.5	0.74 / 4.8	2.10 / 13.0	0.47 / 1.2	2.06 / 33.8	12.8	11.0	23 / 5	46 / 10	3.2 / 0.22	13.0 / 0.9
V42D	1 1/4"	1.34 / 3.4	1.41 / 9.1	6.49 / 41.9	0.61 / 1.5	5.20 / 85.2	26.5	23	44 / 10	88 / 20	2.8 / 0.2	11.0 / 0.7
V42E	1 1/2"	1.34 / 3.4	1.41 / 9.1	6.49 / 41.9	0.61 / 1.5	5.20 / 85.2	32.5	28	44 / 10	88 / 20	1.8 / 0.12	7.3 / 0.5
V42F	2" (425)	2.02 / 5.1	3.20 / 20.6	11.04 / 71.2	0.70 / 1.8	10.50 / 172.1	56	48	100 / 23	200 / 46	3.2 / 0.22	12.7 / 0.87
V42G	2" (426)	2.31 / 5.9	4.19 / 27.0	15.03 / 97.0	0.99 / 2.5	16.34 / 267.8	68	59	130 / 29	260 / 58	3.7 / 0.25	14.7 / 1.01
V42H	2 1/2"	2.31 / 5.9	4.19 / 27.0	15.03 / 97.0	0.99 / 2.5	16.34 / 267.8	84	72	130 / 29	260 / 58	2.4 / 0.16	9.7 / 0.67
V42J	3"	2.96 / 7.5	6.88 / 44.4	22.69 / 146.4	1.05 / 2.7	32.80 / 537.6	134	116	214 / 49	428 / 98	2.6 / 0.18	10.2 / 0.7
V42K	4"	3.84 / 9.7	11.58 / 74.7	33.82 / 218.2	1.92 / 4.9	78.83 / 1292.0	275	238	360 / 83	720 / 166	1.7 / 0.12	6.9 / 0.47
V42L	6"	6.06 / 15.4	28.84 / 186.1	120.28 / 776.0	1.70 / 4.3	296.52 / 4860.0	680	588	899 / 204	1798 / 408	1.8 / 0.12	7.0 / 0.5

* Cv – FLOWRATE (GAL./MIN.) OF WATER AT 60° F. AT 1 P.S.I. PRESSURE DROP

** Kv – FLOWRATE (CU. M./HR) OF WATER AT 15.5° C. AT 1 BAR PRESSURE DROP

NOTE 1: MAXIMUM CONTINUOUS VELOCITY THROUGH THE VALVE.

NOTE 2: MAXIMUM CONTINUOUS VELOCITY. EXTENDED SERVICE AT THIS VELOCITY MAY CAUSE CAVITATION.

TO DETERMINE FLOWRATE AT ANY GIVEN PRESSURE DROP, THE FOLLOWING FORMULAS CAN BE USED.

FOR WATER AND LIQUIDS:

$$Q = \frac{Cv\sqrt{\Delta P}}{\sqrt{e}}$$

Q – FLOWRATE IN GAL./MIN.
ΔP – PRESSURE DROP (LB./SQ. IN.)
e – SPECIFIC GRAVITY (WATER = 1.00)

FOR AIR AND GAS:

WHEN P2 < .5P1

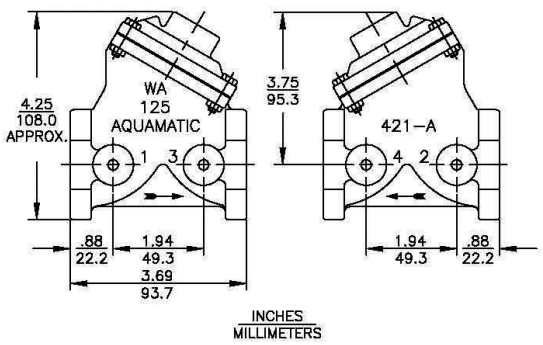
$$Cv = \frac{CFM\sqrt{e}}{.5P1}$$

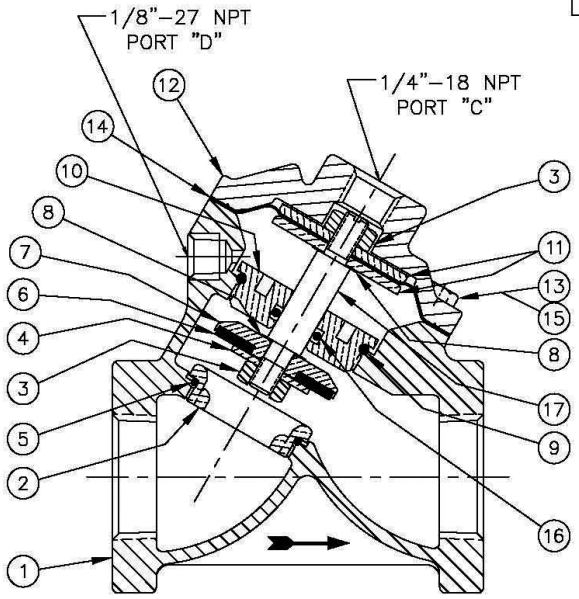
WHEN P2 > .5P1

$$Cv = \frac{CFM\sqrt{e}}{\sqrt{\Delta P\ P2}}$$

CFM – CU. FT./MIN. FLOW
e – SPECIFIC GRAVITY (AIR = 1.00)
P1 – INLET PRESSURE (LB./SQ. IN.)
P2 – OUTLET PRESSURE (LB./SQ. IN.)

THE DATA PRESENTED HERE IS BELIEVED TO BE RELIABLE AND OFFERED AS SUGGESTION ONLY. ACTUAL RESULTS MAY VARY DEPENDING UPON APPLICATION.





1070001 (V42B-0000-00000) (3/4" NPT)
1070011 (V42C-0000-00000) (1" NPT)

NORMALLY OPEN (STANDARD)

PRINTED IN U.S.A.

REPAIR PARTS KITS

DESCRIPTION	PART NO.		
	1070068 (421-RA)	1070081 (421-RAE)	1070093 (421-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N INCLUDES DIAPHRAGM 1074119 (421-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074119 (421-FB)	FKM INCLUDES DIAPHRAGM 1074120 (421-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17	1070118 (421-RF)		
SEAT (ITEM NO. 2)	1074158 (421-MO)		

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074161 (421-MT)
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074124 (421-GT)

NOTE:

1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

NO.	DESCRIPTION			STD	PART NO.	QTY.
1	BODY	CAST IRON	3/4" NPT	*	1074085 (421-A3)	1
			1" NPT	*	1074088 (421-A4)	
		CAST BRASS	3/4" NPT		1074077 (421-AB3)	
			1" NPT		1074080 (421-AB4)	
2	SEAT (REQ'S ASSY TOOL)		BRASS	*	1074158 (421-MO)	1
			STN. STL.		1074160 (421-MS)	
3	HEX LOCK NUT (1/4-28)			*	1071650 (NUS-0010)	2
4	DISC PLATE		BRASS	*	1074147 (421-K)	1
			STN. STL.		1074149 (421-KS)	
5	O-RING		BUNA N	*	1071676 (ORB-024)	1
			E.P.D.M.		1071721 (ORE-024)	
			FKM		1071791 (ORV-024)	
6	DISC		BUNA	*	1074140 (421-J)	1
			E.P.D.M.		1074143 (421-JE)	
			FKM		1074146 (421-JV)	
			HYCAR		1074144 (421-JH)	
7	DISC HOLDER		BRASS	*	1074126 (421-H)	1
			STN. STL.		1074128 (421-HS)	
8	GASKET		COPPER	*	1073948 (200-GC)	2
			LEAD		1073949 (200-GCL)	
9	O-RING		BUNA N	*	1071693 (ORB-125)	1
			E.P.D.M.		1071732 (ORE-125)	
			FKM		1071803 (ORV-125)	
10	SHAFT GUIDE (REQ'S ASSY TOOL)		BRASS	*	1074122 (421-GGO)	1
			STN. STL.		1074123 (421-GGS)	
11	DIAPHRAGM PLATE		BRASS	*	1074117 (421-D)	2
			STN. STL.		1074118 (421-DS)	
12	CAP		CAST IRON	*	1074093 (421-C)	1
			CAST BRASS		1074096 (421-CB)	
13	HEX SCREW		PLATED STEEL	*	1072398 (SCZ-0004)	4
			STN. STL.		1080720 (SCS-0142)	
14	DIAPHRAGM		BUNA N	*	1074119	1
			FKM		1074120	
15	HEX NUT		PLATED STEEL	*	1071656 (NUZ-0008)	4
			STN. STL.		1071649 (NUS-0007)	
16	O-RING		BUNA N	*	1071689 (ORB-110TC)	1
			E.P.D.M.		1071726 (ORE-110TC)	
			FKM		1071798 (ORV-110)	
17	SHAFT (NORMALLY OPEN)			*	1074150 (421-L)	1

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077613

VALVOLE IN GHISA 3/4" - 1" / 3/4" - 1" METAL DIAPHRAGM VALVES

NO.	DESCRIPTION	STD	PART NO.	QTY.
LIMIT STOP MODEL				
18	SCREW	*	1072361 (SCS-0030)	1
19	O-RING	*	1071668 (ORB-012)	1
20	HEX NUT	*	1077534 (400-H)	1
21	CAP — CAST IRON	*	1074101 (421-CCC)	1
	CAST BRASS		1074104 (421-CCCB)	
NORMALLY CLOSED MODEL				
22	PIPE PLUG (1/4" N.P.T.) — PLATED STEEL	*	1071918 (PLZ-0008)	1
	BRASS		1071904 (PLB-0009)	
	STN. STL.		1071915 (PLS-0001)	
23	SHAFT (NORMALLY CLOSED)	*	1074153 (421-LL)	1
SPRING ASSIST CLOSED MODEL				
24	CENTERING NUT — BRASS	*	1074185 (421-X)	1
25	RETAINER NUT — STN. STL.	*	1074183 (421-TT)	1
	PLATED STEEL	*	1074184 (421-TTS)	
26	PIPE PLUG (1/8" N.P.T.) — PLATED STEEL	*	1071917 (PLZ-0005)	1
	BRASS		1071903 (PLB-0007)	
	STN. STL.		1071916 (PLS-0002)	
27	SPRING	*	1074180 (421-SS)	1
28	O-RING	*	1071674 (ORB-020)	1
29	CAP — CAST IRON	*	1074099 (421-CC)	1
	CAST BRASS		1074100 (421-CCB)	
SPRING ASSIST OPEN MODEL				
4	DISC PLATE — BRASS	*	1074147 (421-K)	1
	STN. STL.		1074149 (421-KS)	
8	GASKET — COPPER	*	1073948 (200-GC)	1
	LEAD		1073949 (200-GCL)	
31	SPRING	*	1074175 (421-SB)	1
POSITION INDICATOR MODEL				
32	CAP — CAST IRON	*	1074107 (421-CF)	1
	CAST BRASS	*	1074110 (421-CFB)	
33	O-RING	*	1071692 (ORB-116)	1
34	SHAFT, GUIDE BUSHING	*	1074121 (421-GF)	1
35	INDICATOR SHAFT	*	1074164 (421-PM)	1
36	O-RING	*	1071688 (ORB-108TC)	1
37	TOP NUT	*	1074182 (421-TB)	1
38	LOCKWASHER	*	1073589 (WAS-0006)	1

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.
2. VALVES AVAILABLE WITH B.S.P. OR U.I.S. END CONNECTIONS.

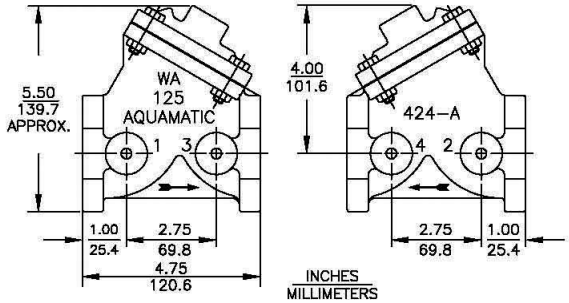
CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 18 THRU 21	1074155 (421-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 24 THRU 29	1074177 (421-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 4,8,10,31	1074179 (421-SOC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 32 THRU 38	1074163 (421-PIC)

REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 18,19,20	1074154 (421-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),23	1070129 (421-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 24,27,28	1074176 (421-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 4,8,31	1074178 (421-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 33 THRU 38	1074162 (421-PI)

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

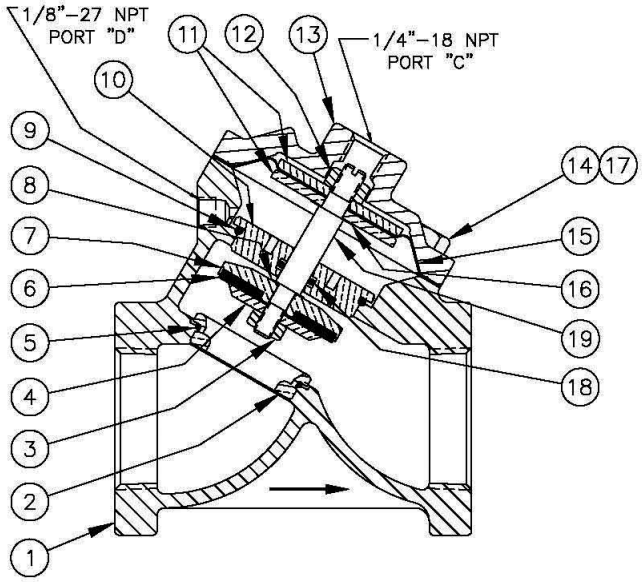


REPAIR PARTS KITS

DESCRIPTION	PART NO.		
	1070069 (424-RA)	1070082 (424-RAE)	1070094 (424-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,5,6,8,9,12,15,16,18	BUNA N INCLUDES DIAPHRAGM 1074222 (424-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074222 (424-FB)	FKM INCLUDES DIAPHRAGM 1074224 (424-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),19	1070119 (424-RF)		
SEAT (ITEM NO. 2)	1074245 (424-MO)		

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074247 (424-MT)
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074227 (424-GT)



1070023 (V42D-0000-00000) (1-1/4" NPT)
1070025 (V42E-0000-00000) (1-1/2" NPT)

NORMALLY OPEN (STANDARD)

NOTE:

1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

NO.	DESCRIPTION			STD	PART NO.	QTY.
1	BODY	CAST IRON	1-1/4" NPT	*	1074196 (424-A5)	1
			1-1/2" NPT	*	1074199 (424-A6)	
		CAST BRASS	1-1/4" NPT		1074190 (424-AB5)	
			1-1/2" NPT		1074193 (424-AB6)	
2	SEAT (REQ'S ASSY TOOL)		BRASS	*	1074245 (424-MO)	1
			STN. STL.		1074248 (424-MV)	
3	HEX LOCK NUT (1/4-28)			*	1071650 (NUS-0010)	1
4	DISC PLATE		BRASS	*	1074237 (424-K)	1
			STN. STL.		1074238 (424-KS)	
5	O-RING		BUNA N	*	1071678 (ORB-028)	1
			E.P.D.M.		1071723 (ORE-028)	
			VITON		1071793 (ORV-028)	
6	DISC		BUNA	*	1074232 (424-J)	1
			E.P.D.M.		1074233 (424-JE)	
			FKM		1074236 (424-JV)	
			HYCAR		1074234 (424-JH)	
7	DISC HOLDER		BRASS	*	1074229 (424-H)	1
			STN. STL.		1074231 (424-HS)	
8	GASKET		COPPER	*	1073948 (200-GG)	1
			LEAD		1073949 (200-GGL)	
9	O-RING		BUNA N	*	1071695 (ORB-132)	1
			E.P.D.M.		1071734 (ORE-132)	
			FKM		1071806 (ORV-132)	
10	SHAFT GUIDE (REQ'S ASSY TOOL)		BRASS	*	1074225 (424-GGO)	1
			STN. STL.		1074226 (424-GGS)	
11	DIAPHRAGM PLATE		BRASS	*	1074220 (424-D)	2
			STN. STL.		1074221 (424-DS)	
12	HEX LOCK NUT (5/16-24)			*	1071651 (NUS-0013)	1
13	CAP	CAST IRON		*	1074202 (424-C)	1
		CAST BRASS			1074206 (424-CB)	
14	HEX SCREW	PLATED STEEL		*	1072399 (SCZ-0007)	4
		STN. STL.			1072392 (SCS-0156)	
15	DIAPHRAGM		BUNA N	*	1074222 (424-FB)	1
			FKM		1074224 (424-FV)	
16	GASKET		COPPER	*	1074252 (424-R)	1
			LEAD		1074263 (424-RL)	
17	HEX NUT	PLATED STEEL			1071656 (NUZ-0008)	4
		STN. STL.			1071649 (NUS-0007)	
18	O-RING		BUNA N	*	1071689 (ORB-110TC)	1
			E.P.D.M.		1071726 (ORE-110TC)	
			FKM		1071798 (ORV-110)	
19	SHAFT (NORMALLY OPEN)			*	1074239 (424-L)	1

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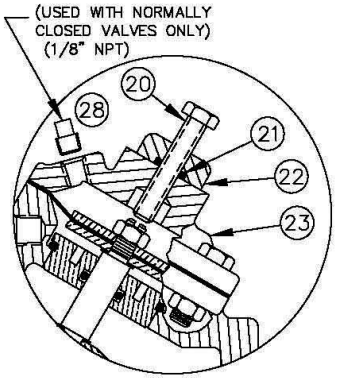
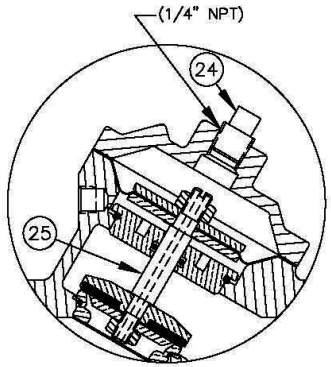


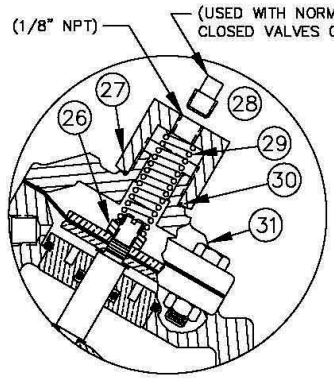
1072720 (V42D-0010-00000) (1-1/4" NPT)
1070028 (V42E-0010-00000) (1-1/2" NPT)

LIMIT STOP



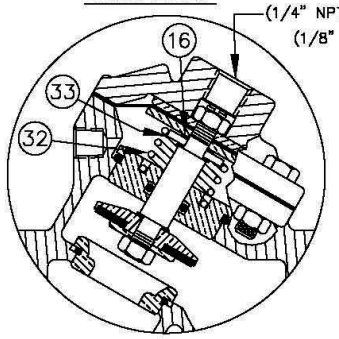
1072723 (V42D-0030-00000) (1-1/4" NPT)
1070026 (V42E-0030-00000) (1-1/2" NPT)

NORMALLY CLOSED



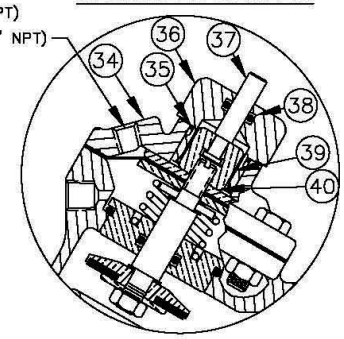
1072716 (V42D-0002-00000) (1-1/4" NPT)
1072792 (V42E-0002-00000) (1-1/2" NPT)

SPRING ASSIST CLOSED



1072715 (V42D-0001-00000) (1-1/4" NPT)
1070027 (V42E-0001-00000) (1-1/2" NPT)

SPRING ASSIST OPEN



1072722 (V42D-0021-00000) (1-1/4" NPT)
1072804 (V42E-0021-00000) (1-1/2" NPT)

POSITION INDICATOR

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

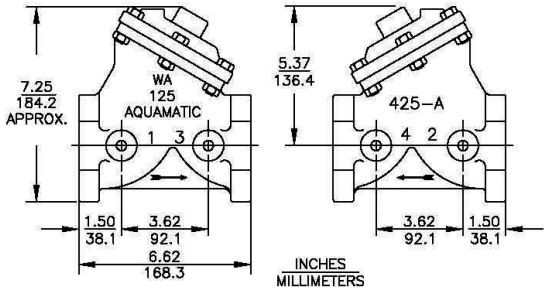
NO.	DESCRIPTION		STD	PART NO.	QTY.
	LIMIT STOP MODEL				
20	SCREW		*	1072362 (SCS-0031)	1
21	O-RING		*	1071668 (ORB-012)	1
22	NUT		*	1077534 (400-H)	1
23	CAP	CAST IRON	*	1074210 (424-CCC)	1
		CAST BRASS		1074213 (424-CCCB)	
	NORMALLY CLOSED MODEL				
24	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ-0008)	1
		BRASS		1071904 (PLB-0009)	
		STN. STL.		1071915 (PLS-0001)	
25	SHAFT (NORMALLY CLOSED)		*	1074241 (424-LL)	1
	SPRING ASSIST CLOSED MODEL				
26	CENTERING NUT		*	1074276 (424-X)	1
27	RETAINER NUT	BRASS	*	1074274 (424-TT)	1
		STN. STL.		1074275 (424-TTS)	
28	PIPE PLUG (1/8" N.P.T.)	PLATED STEEL	*	1071917 (PLZ-0005)	1
		BRASS		1071903 (PLB-0007)	
		STN. STL.		1071916 (PLS-0002)	
29	SPRING		*	1074270 (424-SS)	1
30	O-RING		*	1071674 (ORB-020)	1
31	CAP	CAST IRON	*	1074208 (424-CC)	1
		CAST BRASS		1074209 (424-CCB)	
	SPRING ASSIST OPEN MODEL				
16	GASKET	COPPER	*	1074252 (424-R)	1
		LEAD		1074263 (424-RL)	
32	SPRING		*	1074264 (424-S)	1
33	CENTERING WASHER	BRASS	*	1074382 (426-HA)	1
		STN. STL.		1074384 (426-HAS)	
	POSITION INDICATOR MODEL				
34	CAP	CAST IRON	*	1074217 (424-CF)	1
		CAST BRASS		1074218 (424-CFB)	
35	O-RING		*	1071692 (ORB-116)	1
36	SHAFT GUIDE BUSHING		*	1074121 (421-GF)	1
37	INDICATOR SHAFT		*	1074251 (424-PM)	1
38	O-RING		*	1071688 (ORB-108TC)	1
39	TOP NUT		*	1074272 (424-TB)	1
40	LOCKWASHER		*	1073590 (WAS-0007)	1

CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22,23	1074243 (424-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074266 (424-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,16,32,33	1074269 (424-SOC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 THRU 40	1074250 (424-PIC)

REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22	1074242 (424-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),25	1070130 (424-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26,29,30	1074265 (424-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 16,32,33	1074268 (424-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 35 THRU 40	1074249 (424-PI)

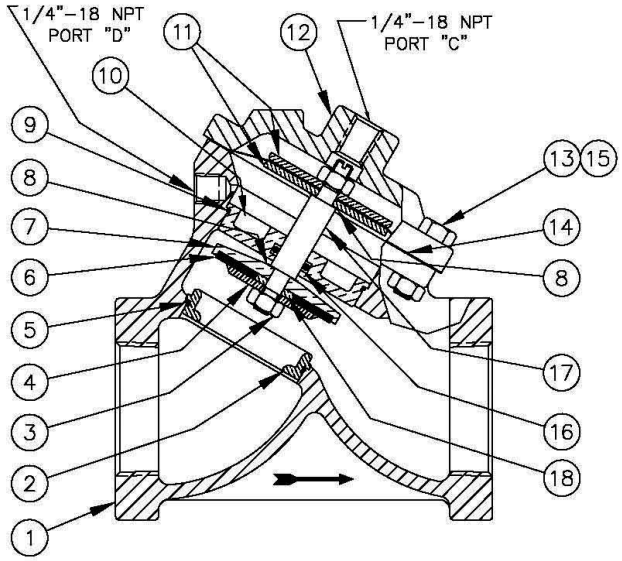


REPAIR PARTS KITS

DESCRIPTION	PART NO.		
	1070070 (425-RA)	1070083 (425-RAE)	1070095 (425-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N INCLUDES DIAPHRAGM 1074296 (425-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074296 (425-FB)	FKM INCLUDES DIAPHRAGM 1074297 (425-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18	1070120 (425-RF)		
SEAT (ITEM NO. 2)	1074321 (425-MO)		

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1" HEX SOCKET



1070035 (V42F-0000-00000) (2" NPT)

NORMALLY OPEN (STANDARD)

NOTE:

1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

NO.	DESCRIPTION		STD	PART NO.	QTY.
1	BODY	CAST IRON 2" NPT	*	1074277 (425-A)	1
2	SEAT (REQ'S ASSY TOOL)	BRASS	*	1074321 (425-MO)	1
3	HEX LOCK NUT (5/16-24)		*	1071651 (NUS-0013)	2
4	DISC PLATE	BRASS	*	1074220 (424-D)	1
5	O-RING	BUNA N	*	1071682 (ORB-035)	1
		E.P.D.M.		1071724 (ORE-035)	
		VITON		1071794 (ORV-035)	
6	DISC	BUNA	*	1074307 (425-J)	1
		E.P.D.M.		1074309 (425-JE)	
		FKM		1074312 (425-JV)	
		HYCAR		1074310 (425-JH)	
7	DISC HOLDER	BRASS	*	1074303 (425-H)	1
8	GASKET	COPPER	*	1074252 (424-R)	2
		LEAD		1074263 (424-RL)	
9	O-RING	BUNA N	*	1071684 (ORB-038)	1
		E.P.D.M.		1071725 (ORE-038)	
		FKM		1071795 (ORV-038)	
10	SHAFT GUIDE (REQ'S ASSY TOOL)	BRASS	*	1074301 (425-GO)	1
11	DIAPHRAGM PLATE	BRASS	*	1074293 (425-D)	2
12	CAP	CAST IRON	*	1074281 (425-C)	1
13	HEX SCREW	PLATED STEEL	*	1072400 (SCZ-0013)	6
14	DIAPHRAGM	BUNA N	*	1074296 (425-FB)	1
		FKM		1074297 (425-FV)	
15	HEX NUT	PLATED STEEL		1071657 (NUZ-0011)	6
16	O-RING	BUNA N	*	1071699 (ORB-206TC)	1
		E.P.D.M.		1071742 (ORE-206TC)	
		FKM		1071813 (ORV-206)	
17	SHAFT (NORMALLY OPEN)		*	1074314 (425-L)	1
18	DISC SPACER		*	1074382 (426-HA)	1

SEE REVERSE SIDE
CONFIGURATION OPTIONS

FORM NO. 1077615

PRINTED IN U.S.A.

VALVOLE IN GHISA 2" / 2" METAL DIAPHRAGM VALVES

1070037 (V42F-0010-00000) (2" NPT) **LIMIT STOP**

1072894 (V42F-0030-00000) (2" NPT) **NORMALLY CLOSED**

1072885 (V42F-0002-00000) (2" NPT) **SPRING ASSIST CLOSED**

1070036 (V42F-0001-00000) (2" NPT) **SPRING ASSIST OPEN**

1072893 (V42F-0021-00000) (2" NPT) **POSITION INDICATOR**

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.
2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

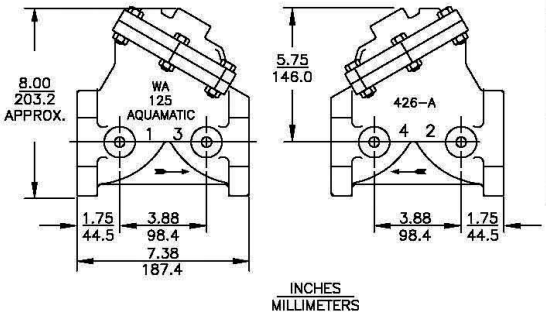
NO.	DESCRIPTION	STD	PART NO.	QTY.
	LIMIT STOP MODEL			
19	SCREW	*	1072364 (SCS-0042)	1
20	O-RING	*	1071690 (ORB-112)	1
21	NUT	*	1074434 (426-U)	1
22	CAP CAST IRON	*	1074285 (425-CC)	1
	NORMALLY CLOSED MODEL			
23	PIPE PLUG (1/4" N.P.T.) PLATED STEEL	*	1071918 (PLZ-0008)	1
	PIPE PLUG (1/4" N.P.T.) BRASS		1071904 (PLB-0009)	
	PIPE PLUG (1/4" N.P.T.) STN. STL.		1071915 (PLS-0001)	
24	SHAFT (NORMALLY CLOSED)	*	1074317 (425-LL)	1
	SPRING ASSIST CLOSED MODEL			
25	CENTERING WASHER BRASS	*	1074083 (421-AH)	1
	CENTERING WASHER STN. STL.		1074084 (421-AHS)	
26	RETAINER NUT BRASS	*	1074430 (426-TT)	1
	RETAINER NUT PLATED STEEL	*	1071917 (PLZ-0005)	
27	PIPE PLUG (1/8" N.P.T.) BRASS		1071903 (PLB-0007)	1
	PIPE PLUG (1/8" N.P.T.) STN. STL.		1071916 (PLS-0002)	
28	SPRING	*	1074428 (426-SS)	1
29	O-RING	*	1071677 (ORB-025)	1
30	CAP CAST IRON	*	1074284 (425-CA)	1
	SPRING ASSIST OPEN MODEL			
B	GASKET COPPER	*	1074252 (424-R)	1
	GASKET LEAD		1074263 (424-RL)	
31	SPRING	*	1074423 (426-S)	1
32	CENTERING WASHER BRASS	*	1074436 (426-V)	1
	CENTERING WASHER STN. STL.		1074437 (426-VS)	
	POSITION INDICATOR MODEL			
33	CAP CAST IRON	*	1074288 (425-CF)	1
34	O-RING	*	1071692 (ORB-116)	1
35	SHAFT GUIDE BUSHING	*	1074121 (421-GF)	1
36	INDICATOR SHAFT	*	1074325 (425-PM)	1
37	O-RING	*	1071688 (ORB-108TC)	1
38	TOP NUT	*	1074332 (425-TB)	1
39	LOCKWASHER	*	1073590 (WAS-0007)	1

CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21,22	1074320 (425-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25 THRU 30	1074330 (425-SSC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,31,32	1074331 (425-SO)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 33 THRU 39	1074324 (425-PIC)

REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21	1074319 (425-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,24	1070131 (425-RK)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25,28,29	1074329 (425-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,30,31	1074331 (425-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 34 THRU 39	1074323 (425-PI)

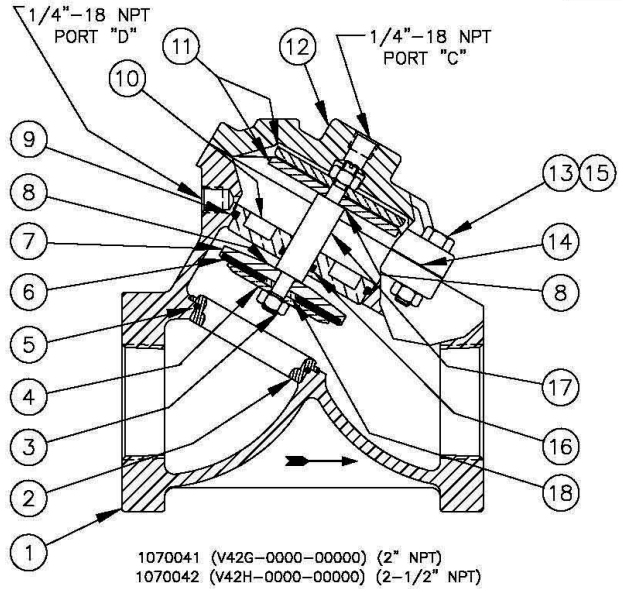


REPAIR PARTS KITS

DESCRIPTION	PART NO.		
	1070071 (426-RA)	1070084 (426-RAE)	1070096 (426-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N INCLUDES DIAPHRAGM 1074374 (426-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074374 (426-FB)	FKM INCLUDES DIAPHRAGM 1074376 (426-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18	1070121 (426-RF)		
SEAT (ITEM NO. 2)	1074409 (426-MO)		

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1-3/16" HEX SOCKET



1070041 (V42G-0000-00000) (2" NPT)
1070042 (V42H-0000-00000) (2-1/2" NPT)

NORMALLY OPEN (STANDARD)

NOTE:

1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

NO.	DESCRIPTION			STD	PART NO.	QTY.
1	BODY	CAST IRON	2" NPT	*	1074343 (426-AB)	1
			2-1/2" NPT	*	1081559 (426-A10)	
		CAST BRASS	2" NPT		1074338 (426-AB8)	
			2-1/2" NPT		1074335 (426-AB10)	
2	SEAT (REQ'S ASSY TOOL)		BRASS	*	1074409 (426-MO)	1
			STN. STL.		1074408 (426-MAVO)	
3	HEX LOCK NUT (5/16-24)			*	1071651 (NUS-0013)	2
4	DISC PLATE		BRASS	*	1074395 (426-K)	1
			STN. STL.		1074398 (426-KS)	
5	O-RING		BUNA N	*	1071696 (ORB-144)	1
			E.P.D.M.		1071737 (ORE-144)	
			FKM		1071809 (ORV-144)	
6	DISC		BUNA	*	1074389 (426-J)	1
			E.P.D.M.		1074391 (426-JE)	
			FKM		1074394 (426-JV)	
			HYCAR		1074392 (426-JH)	
7	DISC HOLDER		BRASS	*	1074381 (426-H)	1
			STN. STL.		1074386 (426-HS)	
8	GASKET		COPPER	*	1074252 (424-R)	2
			LEAD		1074263 (424-RL)	
9	O-RING		BUNA N	*	1071706 (ORB-233)	1
			E.P.D.M.		1071754 (ORE-233)	
			FKM		1071826 (ORV-233)	
10	SHAFT GUIDE (REQ'S ASSY TOOL)		BRASS	*	1074379 (426-GO)	1
			STN. STL.		1074378 (426-GASO)	
11	DIAPHRAGM PLATE		BRASS	*	1074370 (426-D)	2
			STN. STL.		1074371 (426-DA)	
12	CAP		CAST IRON	*	1081560 (426-C)	1
			CAST BRASS		1074348 (426-CB)	
13	HEX SCREW		PLATED STEEL	*	1072401 (SCZ-0015)	6
			STN. STL.		1072358 (SCS-0016)	
14	DIAPHRAGM		BUNA N	*	1074374 (426-FB)	1
			FKM		1074376 (426-FV)	
15	HEX NUT		PLATED STEEL	*	1071657 (NUZ-0011)	6
			STN. STL.		1071655 (NUS-0035)	
16	O-RING		BUNA N	*	1071691 (ORB-114TC)	1
			E.P.D.M.		1071729 (ORE-114TC)	
			FKM		1071800 (ORV-114)	
17	SHAFT (NORMALLY OPEN)			*	1074400 (426-L)	1
18	DISC SPACER		BRASS	*	1074382 (426-HA)	1
			STN. STL.		1074384 (426-HAS)	

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VALVOLE IN GHISA 21/2" / 21/2" METAL DIAPHRAGM VALVES

1072939 (V42G-0010-00000) (2" NPT)
1072998 (V42H-0010-00000) (2-1/2" NPT)

LIMIT STOP

1072945 (V42G-0030-00000) (2" NPT)
1073002 (V42H-0030-00000) (2-1/2" NPT)

NORMALLY CLOSED

1072935 (V42G-0002-00000) (2" NPT)
1072996 (V42H-0002-00000) (2-1/2" NPT)

SPRING ASSIST CLOSED

1072932 (V42G-0001-00000) (2" NPT)
1072994 (V42H-0001-00000) (2-1/2" NPT)

SPRING ASSIST OPEN

1072943 (V42G-0021-00000) (2" NPT)
1073001 (V42H-0021-00000) (2-1/2" NPT)

POSITION INDICATOR

NO.	DESCRIPTION		STD	PART NO.	QTY.
LIMIT STOP MODEL					
19	SCREW		*	1072364 (SCS-0042)	1
20	O-RING		*	1071690 (ORB-112)	1
21	NUT		*	1074434 (426-U)	1
22	CAP	CAST IRON	*	1074354 (426-CCC)	1
		CAST BRASS		1074357 (426-CCCB)	1
NORMALLY CLOSED MODEL					
23	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ-0008)	
		BRASS		1071904 (PLB-0009)	1
		STN. STL.		1071915 (PLS-0001)	
24	SHAFT (NORMALLY CLOSED)		*	1074402 (426-LL)	1
SPRING ASSIST CLOSED MODEL					
25	CENTERING WASHER	BRASS	*	1074083 (421-AH)	1
		STN. STL.	*	1074084 (421-AHS)	
26	RETAINER NUT	BRASS	*	1074430 (426-TT)	1
		STN. STL.	*	1074433 (426-TTS)	
27	PIPE PLUG (1/8" N.P.T.)	PLATED STEEL	*	1071917 (PLZ-0005)	1
		BRASS		1071903 (PLB-0007)	
		STN. STL.		1071916 (PLS-0002)	
28	SPRING		*	1074428 (426-SS)	1
29	O-RING		*	1071677 (ORB-025)	1
30	CAP	CAST IRON	*	1074352 (426-CC)	1
		CAST BRASS		1074353 (426-CCB)	
SPRING ASSIST OPEN MODEL					
8	GASKET	COPPER	*	1074252 (424-R)	1
		LEAD		1074263 (424-RL)	
31	SPRING		*	1074423 (426-S)	1
32	CENTERING WASHER	BRASS	*	1074436 (426-V)	1
		STN. STL.		1074437 (426-VS)	
POSITION INDICATOR MODEL					
33	CAP	CAST IRON	*	1074360 (426-CF)	1
		CAST BRASS		1074364 (426-CFB)	
34	O-RING		*	1071692 (ORB-116)	1
35	SHAFT GUIDE BUSHING		*	1074121 (421-GF)	1
36	INDICATOR SHAFT		*	1074325 (425-PM)	1
37	O-RING		*	1071688 (ORB-108TC)	1
38	TOP NUT		*	1074332 (425-TB)	1
39	LOCKWASHER		*	1073590 (WAS-0007)	1

NOTE:

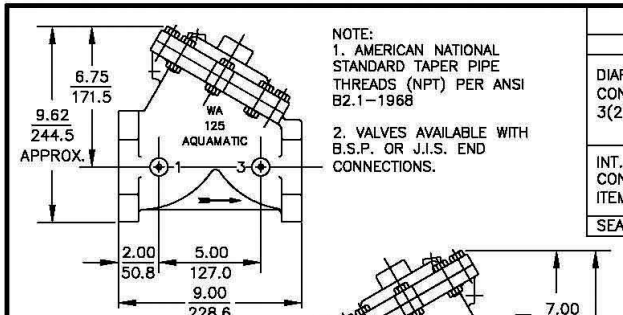
1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.
2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

CONVERSION KITS

	DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21,22		1071446 (426-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25 THRU 30		1071426 (426-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,31,32		1071427 (426-SO)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 33 THRU 39		1071414 (426-PIC)

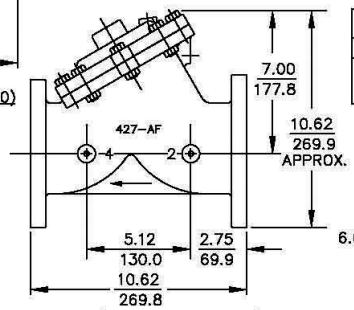
REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21	1071405 (426-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,24	1070132 (426-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25,28,29	1071425 (426-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,31,32	1071427 (426-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 34 THRU 39	1071413 (426-PI)



1070043 (V42J–0000–00000)
3" NPT ENDS

INCHES
MILLIMETERS



1070044 (V42J–3000–00000)
FLANGED ENDS

NOTE:
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1–1968

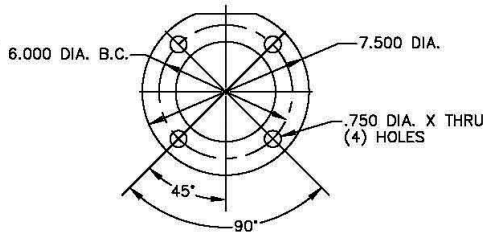
2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

REPAIR PARTS KITS

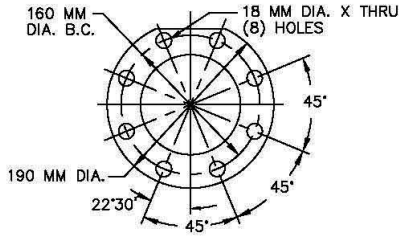
DESCRIPTION	PART NO.		
	1070072 (427–RA)	1070085 (427–RAE)	1070097 (427–RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N INCLUDES DIAPHRAGM 1074475 (427–FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074475 (427–FB)	FKM INCLUDES DIAPHRAGM 1074477 (427–FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18	1070122 (427–RF)		
SEAT (ITEM NO. 2)	1074505 (427–MO)		

ASSEMBLY TOOLS

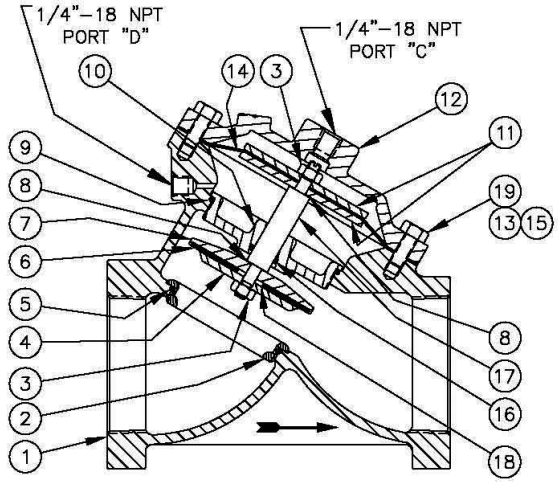
DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (NOT SHOWN)	1–3/16" HEX SOCKET



AMERICAN FLANGE PER
A.S.A. 16.1 CLASS 125



METRIC FLANGE PER
BS4504, DIN 10 & ISO R 2084



NORMALLY OPEN (STANDARD)

NO.	DESCRIPTION		STD	PART NO.	QTY.
1	BODY	CAST IRON THREADED	*	1074446 (427–AS)	1
		CAST IRON FLANGED	*	1074438 (427–AF)	
		CAST BRASS THREADED		1074449 (427–ASB)	
2	SEAT	BRASS	*	1074505 (427–MO)	1
		STN. STL.		1074507 (427–MV)	
3	HEX LOCK NUT (5/16–24)			1071651 (NUS–0013)	2
4	DISC PLATE	BRASS	*	1074493 (427–K)	1
		STN. STL.		1074495 (427–KS)	
5	O–RING	BUNA N	*	1071706 (ORB–233)	1
		E.P.D.M.		1071754 (ORE–233)	
		FKM		1071826 (ORV–233)	
6	DISC	BUNA	*	1074487 (427–J)	1
		E.P.D.M.		1074489 (427–JE)	
		FKM		1074492 (427–JV)	
		HYCAR		1074490 (427–JH)	
7	DISC HOLDER	BRASS	*	1074485 (427–HO)	1
		STN. STL.		1074486 (427–HSS)	
8	GASKET	COPPER	*	1074252 (424–R)	2
		LEAD		1074263 (424–RL)	
9	O–RING	BUNA N	*	1071708 (ORB–237)	1
		E.P.D.M.		1071755 (ORE–237)	
		FKM		1071828 (ORV–237)	
10	SHAFT GUIDE (REQ'S ASSY TOOL)	BRASS	*	1074481 (427–GO)	1
		STN. STL.		1074479 (427–GASO)	
11	DIAPHRAGM PLATE	BRASS	*	1074471 (427–D)	2
		STN. STL.		1074472 (427–DA)	
12	CAP	CAST IRON	*	1074454 (427–C)	1
		CAST BRASS		1074457 (427–CB)	
13	HEX SCREW	PLATED STEEL	*	1072405 (SCZ–0025)	6
		STN. STL.		1072390 (SCS–0152)	
14	DIAPHRAGM	BUNA N	*	1074475 (427–FB)	1
		FKM		1074477 (427–FV)	
15	HEX NUT	PLATED STEEL	*	1071658 (NUZ–0014)	6
		STN. STL.		1071652 (NUS–0014)	
16	O–RING	BUNA N	*	1071691 (ORB–114TC)	1
		E.P.D.M.		1071729 (ORE–114TC)	
		FKM		1071800 (ORV–114)	
17	SHAFT (NORMALLY OPEN)		*	1074496 (427–L)	1
18	DISC SPACER	BRASS	*	1074382 (426–HA)	1
		STN. STL.		1074384 (426–HAS)	
19	HEX SCREW	STN. STL.	*	1072359 (SCS–0020)	2

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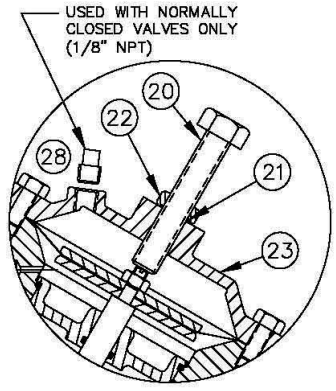
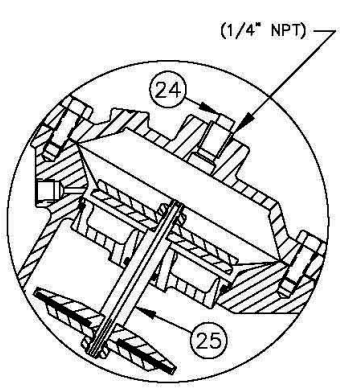


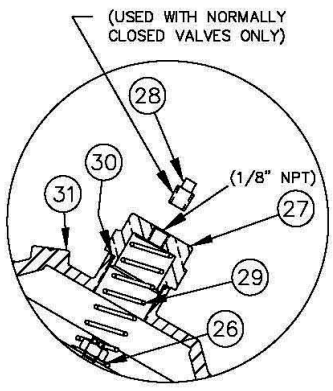
1073045 (V42J-0010-00000) (THREADED)
1073103 (V42J-3010-00000) (FLANGED)

LIMIT STOP



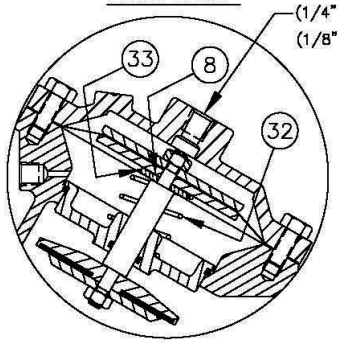
1073055 (V42J-0030-00000) (THREADED)
1073113 (V42J-3030-00000) (FLANGED)

NORMALLY CLOSED



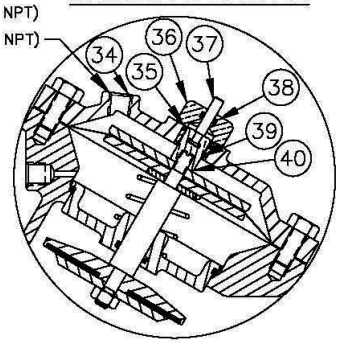
1073047 (V42J-0002-00000) (THREADED)
1073100 (V42J-3002-00000) (FLANGED)

SPRING ASSIST CLOSED



1073045 (V42J-0001-00000) (THREADED)
1073097 (V42J-3001-00000) (FLANGED)

SPRING ASSIST OPEN



1073054 (V42J-0021-00000) (THREADED)
1077374 (V42J-3021-00000) (FLANGED)

POSITION INDICATOR

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

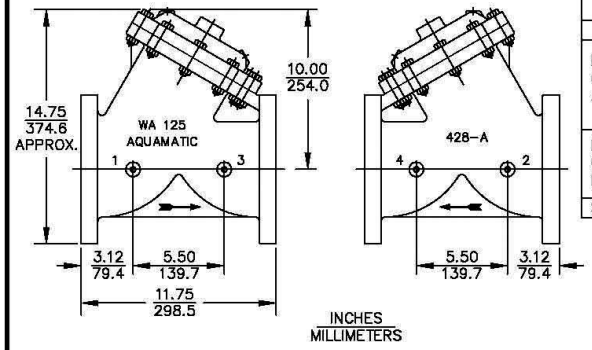
NO.	DESCRIPTION		STD	PART NO.	QTY.
	LIMIT STOP MODEL				
20	SCREW		*	1072365 (SCS-0043)	1
21	O-RING		*	1071690 (ORB-112)	1
22	NUT		*	1074434 (426-U)	1
23	CAP	CAST IRON	*	1074462 (427-CCC)	1
		CAST BRASS		1074465 (427-CCCB)	
	NORMALLY CLOSED MODEL				
24	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ-0008)	1
		BRASS		1071904 (PLB-0009)	
		STN. STL.		1071915 (PLS-0001)	
25	SHAFT (NORMALLY CLOSED)		*	1074499 (427-LL)	1
	SPRING ASSIST CLOSED MODEL				
26	CENTERING WASHER	BRASS	*	1074083 (421-AH)	1
		STN. STL.		1074084 (421-AHS)	
27	RETAINER NUT	BRASS	*	1074430 (426-TT)	1
		STN. STL.		1074433 (426-TTS)	
28	PIPE PLUG (1/8" N.P.T.)	PLATED STEEL	*	1071917 (PLZ-0005)	1
		BRASS		1071903 (PLB-0007)	
		STN. STL.		1071916 (PLS-0002)	
29	SPRING		*	1074428 (426-SS)	1
30	O-RING		*	1071677 (ORB-025)	1
31	CAP	CAST IRON	*	1074460 (427-CC)	1
		CAST BRASS		1074461 (427-CCB)	
	SPRING ASSIST OPEN MODEL				
8	GASKET	COPPER	*	1074252 (424-R)	1
		LEAD		1074263 (424-RL)	
32	SPRING		*	1074423 (426-S)	1
33	CENTERING WASHER	BRASS	*	1074436 (426-V)	1
		STN. STL.		1074437 (426-VS)	
	POSITION INDICATOR MODEL				
34	CAP	CAST IRON	*	1074468 (427-CF)	1
		CAST BRASS		1074469 (427-CFB)	
35	O-RING		*	1071692 (ORB-116)	1
36	SHAFT GUIDE BUSHING		*	1074121 (421-GF)	1
37	INDICATOR SHAFT		*	1074510 (427-PM)	1
38	O-RING		*	1071688 (ORB-108TC)	1
39	TOP NUT		*	1074332 (425-TB)	1
40	LOCKWASHER		*	1073590 (WAS-0007)	1

CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22,23	1074502 (427-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074519 (427-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33	1074521 (427-SO)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 THRU 40	1074509 (427-PIC)

REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22	1074501 (427-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,25	1070133 (427-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26,29,30	1081565 (427-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33	1074521 (427-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 35 THRU 40	1074508 (427-PI)

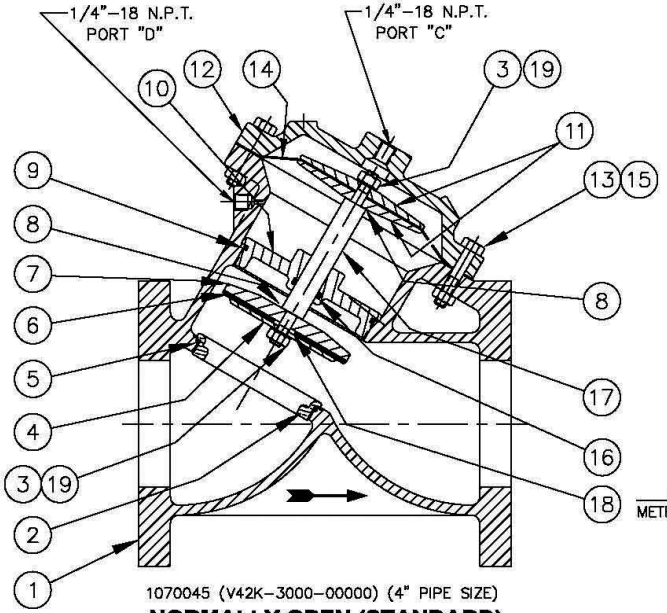


REPAIR PARTS KITS

DESCRIPTION	PART NO.		
	1070073 (428-RA)	1070086 (428-RAE)	1070098 (428-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N INCLUDES DIAPHRAGM 1074557 (428-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074557 (428-FB)	FKM INCLUDES DIAPHRAGM 1074559 (428-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18,19	1070123 (428-RF)		
SEAT (ITEM NO. 2)	1074585 (428-MAO)		

NOTE:
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

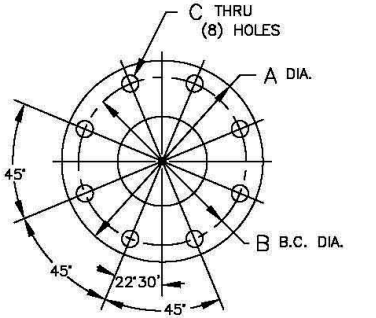
2. VALVES AVAILABLE WITH B.S.P. END CONNECTIONS.



1070045 (V42K-3000-00000) (4" PIPE SIZE)

NORMALLY OPEN (STANDARD)

FLANGE STYLE	A	B	C
AMERICAN	9.000	7.500	.750
METRIC	229 MM	180 MM	18 MM



AMERICAN FLANGE PER A.S.A. 16.1 CLASS 125
METRIC FLANGE PER BS 4504, DIN 10 & ISO R 2084

NO.	DESCRIPTION		STD	PART NO.	QTY.
1	BODY	CAST IRON	*	1074522 (428-A)	1
2	SEAT	BRASS	*	1074585 (428-MAO)	1
		STN. STL.		1074586 (428-MAVO)	
3	HEX LOCK NUT (3/8-24)		*	1071653 (NUS-0017)	2
4	DISC PLATE	BRASS	*	1074574 (428-K)	1
		STN. STL.		1074576 (428-KAV)	
5	O-RING	BUNA N	*	1071697 (ORB-156)	1
		E.P.D.M.		1071739 (ORE-156)	
		FKM		1071811 (ORV-156)	
6	DISC	BUNA	*	1074568 (428-J)	1
		E.P.D.M.		1074570 (428-JE)	
		FKM		1074573 (428-JV)	
		HYCAR		1074571 (428-JH)	
7	DISC HOLDER	BRASS	*	1074587 (428-N)	1
		STN. STL.		1074590 (428-NS)	
8	GASKET	COPPER	*	1073950 (200-LL)	2
		LEAD		1073951 (200-LLL)	
9	O-RING	BUNA N	*	1071711 (ORB-245)	1
		E.P.D.M.		1071759 (ORE-245)	
		FKM		1071832 (ORV-245)	
10	SHAFT GUIDE	BRASS	*	1074563 (428-GO)	1
		STN. STL.		1074561 (428-GASO)	
11	DIAPHRAGM PLATE	BRASS	*	1074553 (428-D)	2
		STN. STL.		1074554 (428-DA)	1
				1074555 (428-DAA)	1
12	CAP	CAST IRON	*	1074532 (428-C)	1
13	HEX SCREW	PLATED STEEL	*	1072406 (SCZ-0027)	11
		STN. STL.		1072391 (SCS-0154)	
14	DIAPHRAGM	BUNA N	*	1074557 (428-FB)	1
		FKM		1074559 (428-FV)	
15	HEX NUT	PLATED STEEL	*	1071658 (NUZ-0014)	11
		STN. STL.		1071652 (NUS-0014)	
16	O-RING	BUNA N	*	1071702 (ORB-210TC)	1
		E.P.D.M.		1071744 (ORE-210)	
		FKM		1071815 (ORV-210)	
17	SHAFT (NORMALLY OPEN)		*	1074578 (428-L)	1
18	DISC SPACER	BRASS	*	1074565 (428-HA)	1
		STN. STL.		1074566 (428-HAS)	
19	LOCKWASHER		*	1073591 (WAS-0008)	2

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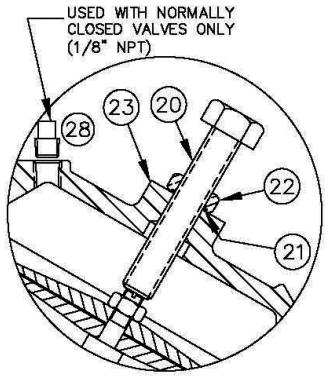
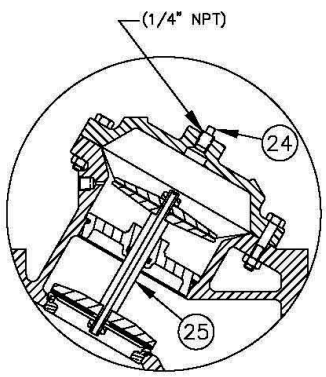


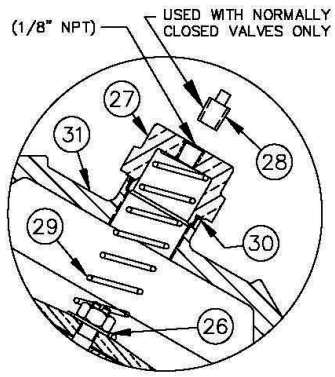
1073151 (V42K–3010–00000)

LIMIT STOP



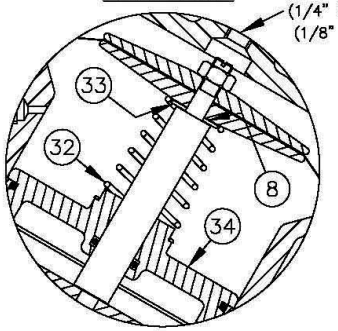
1073158 (V42K–3030–00000)

NORMALLY CLOSED



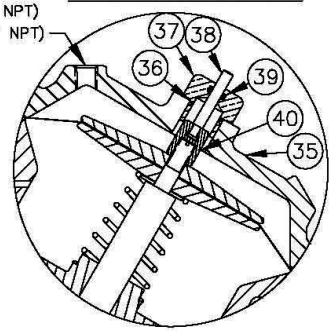
1073148 (V42K–3002–00000)

SPRING ASSIST CLOSED



1073146 (V42K–3001–00000)

SPRING ASSIST OPEN



1073156 (V42K–3021–00000)

POSITION INDICATOR

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.

2. VALVES AVAILABLE WITH B.S.P. END CONNECTIONS.

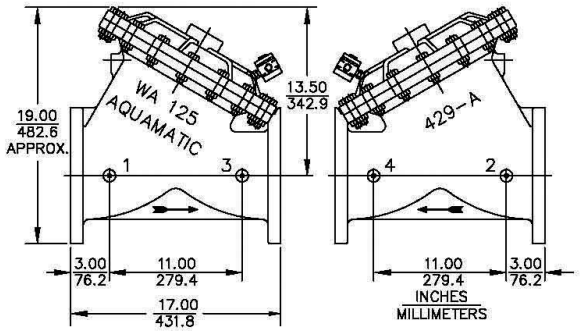
NO.	DESCRIPTION		STD	PART NO.	QTY.
	LIMIT STOP MODEL				
20	SCREW		*	1072365 (SCS–0043)	1
21	O–RING		*	1071690 (ORB–112)	1
22	NUT		*	1074434 (426–U)	1
23	CAP	CAST IRON	*	1074542 (428–CCC)	1
	NORMALLY CLOSED MODEL				
24	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ–0008)	1
		BRASS		1071904 (PLB–0009)	
		STN. STL.		1071915 (PLS–0001)	
25	SHAFT (NORMALLY CLOSED)		*	1074581 (428–LL)	1
	SPRING ASSIST CLOSED MODEL				
26	CENTERING WASHER	BRASS	*	1074530 (428–AH)	1
		STN. STL.			
27	RETAINER NUT	BRASS	*	1074430 (426–TT)	1
		STN. STL.		1074433 (426–TTS)	
28	PIPE PLUG (1/8" N.P.T.)	PLATED STEEL	*	1071917 (PLZ–0005)	1
		BRASS		1071903 (PLB–0007)	
		STN. STL.		1071916 (PLS–0002)	
29	SPRING		*	1074607 (428–SS)	1
30	O–RING		*	1071677 (ORB–025)	1
31	CAP	CAST IRON	*	1074540 (428–CC)	1
	SPRING ASSIST OPEN MODEL				
8	GASKET	COPPER	*	1073950 (200–LL)	1
		LEAD		1073951 (200–LLL)	
32	SPRING		*	1074600 (428–S)	1
33	CENTERING WASHER	BRASS	*	1074610 (428–V)	1
		STN. STL.			
34	SHAFT GUIDE	BRASS	*	1074562 (428–GGO)	1
		STN. STL.			
	POSITION INDICATOR MODEL				
35	CAP	CAST IRON	*	1074549 (428–CF)	1
36	O–RING		*	1071692 (ORB–116)	1
37	SHAFT GUIDE BUSHING		*	1074121 (421–GF)	1
38	INDICATOR SHAFT		*	1074593 (428–PM)	1
39	O–RING		*	1071688 (ORB–108TC)	1
40	TOP NUT		*	1074608 (428–TB)	1

CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22,23	1074584 (428–LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074603 (428–SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33,34	1074606 (428–SOC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 35 THRU 40	1074592 (428–PIC)

REPAIR PARTS KITS

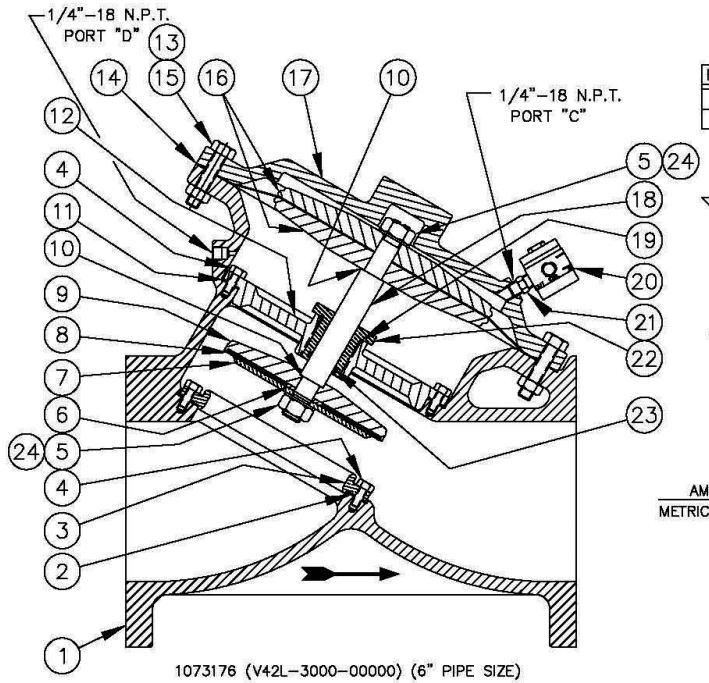
DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22	1074583 (428–LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,25	1070134 (428–RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26,29,30	1074602 (428–SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33	1074604 (428–SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 36 THRU 40	1074591 (428–PI)



REPAIR PARTS KITS

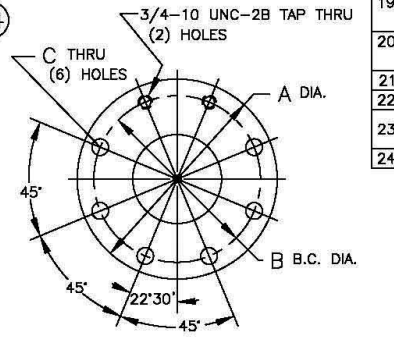
DESCRIPTION	PART NO.	
	1070074 (429-RA)	1070099 (429-RAV)
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 2,5(2),8,10(2),11,14,19,23,24(2)	BUNA N INCLUDES DIAPHRAGM 1074622 (429-FB)	FKM INCLUDES DIAPHRAGM 1074623 (429-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,(12)6,7,9,12,16(2),18,22	1074653 (429-RF)	
SEAT ITEM NO. 3,4(8)	1074640 (429-MO)	

NOTE:
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968



1073176 (V42L-3000-00000) (6" PIPE SIZE)
NORMALLY OPEN (STANDARD)

FLANGE STYLE	A	B	C
AMERICAN	11.000	9.500	.875
METRIC	279 MM	240 MM	22 MM



AMERICAN FLANGE PER A.S.A. 16.1 CLASS 125
METRIC FLANGE PER BS 4504, DIN 10 & ISO R 2084

NO.	DESCRIPTION		STD	PART NO.	QTY.
1	BODY	CAST IRON	*	1074613 (429-A)	1
2	SEAT GASKET	BUNA N	*	1074642 (429-N)	1
		FKM		1074643 (429-NV)	
3	SEAT	BRASS	*	1074640 (429-MO)	1
4	HEX SCREW (5/16-18X3/4)		*	1072355 (SCS-0011)	20
5	HEX LOCK NUT		*	1071654 (NUS-0025)	2
6	DISC SPACER	BRASS	*	1074628 (429-HA)	1
7	DISC PLATE	BRASS	*	1074634 (429-K)	1
8	DISC	BUNA N	*	1074631 (429-J)	1
		FKM		1074633 (429-JV)	
		HYCAR		1074632 (429-JH)	
9	DISC HOLDER	BRASS	*	1074627 (429-H)	1
10	GASKET	COPPER	*	1073952 (201-M)	2
		LEAD			
11	CENTERING PLATE GASKET	BUNA N	*	1074644 (429-O)	1
		FKM		1074645 (429-OV)	
12	CENTERING PLATE	CAST IRON	*	1074625 (429-GO)	1
13	HEX NUT	PLATED STEEL	*	1071659 (NUZ-0021)	16
14	DIAPHRAGM	BUNA N	*	1074622 (429-FB)	1
		FKM		1074623 (429-FV)	
15	HEX SCREW	PLATED STEEL	*	1072410 (SCZ-0038)	16
16	DIAPHRAGM PLATE	BRASS	*	1074620 (429-D)	2
17	CAP	CAST IRON	*	1074615 (429-C)	1
18	SHAFT (NORMALLY OPEN)		*	1074636 (429-L)	1
19	O-RING	BUNA N	*	1076766 (ORB-214)	1
		E.P.D.M.		1071746 (ORE-214)	
		FKM		1071817 (ORV-214)	
20	AUXILIARY PILOT VALVE (SEE SHEET V429-1B)		*	1074661 (429-VP)	1
21	HEX NIPPLE		*	1081648 (510-CM)	1
22	SHAFT GUIDE	BRASS	*	1074646 (429-P)	1
23	O-RING	BUNA N	*	1071703 (ORB-223)	1
		FKM		1071820 (ORV-223)	
24	LOCKWASHER		*	1073592 (WAS-0011)	2

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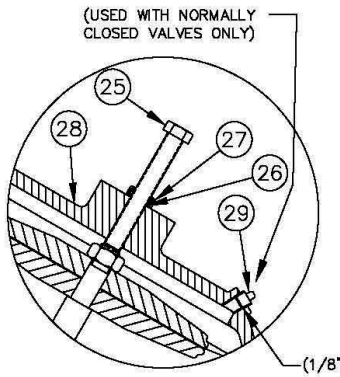
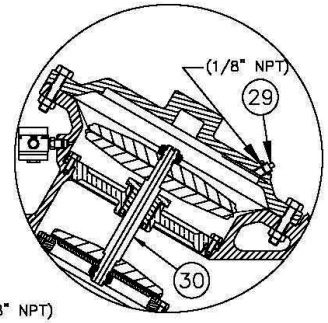


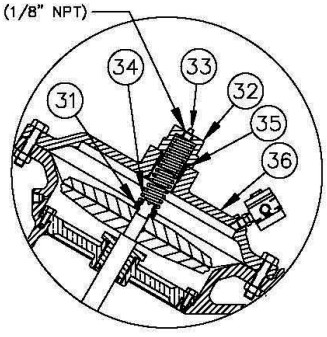
1073184 (V42L-3010-00000)

LIMIT STOP



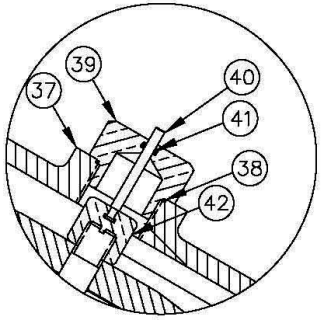
1073187 (V42L-3030-00000)

NORMALLY CLOSED



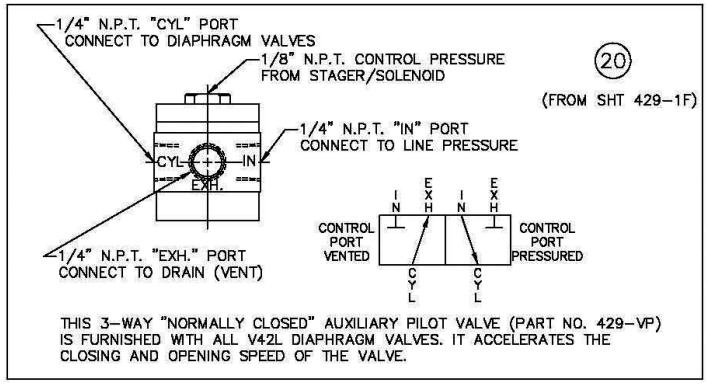
V42L-3002-00000

SPRING ASSIST CLOSED



V42L-3020-00000

POSITION INDICATOR



THIS 3-WAY "NORMALLY CLOSED" AUXILIARY PILOT VALVE (PART NO. 429-VP) IS FURNISHED WITH ALL V42L DIAPHRAGM VALVES. IT ACCELERATES THE CLOSING AND OPENING SPEED OF THE VALVE.

NO.	DESCRIPTION		STD	PART NO.	QTY.
	LIMIT STOP MODEL				
25	SCREW		*	1074660 (429-U)	1
26	O-RING		*	1071690 (ORB-112)	1
27	NUT		*	1074434 (426-U)	1
28	CAP	CAST IRON	*	1074617 (429-CCC)	1
	NORMALLY CLOSED MODEL				
29	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ-0008)	1
		BRASS		1071904 (PLB-0009)	
		STN. STL.		1071915 (PLS-0001)	
30	SHAFT (NORMALLY CLOSED)		*	1074637 (429-LL)	1
	SPRING ASSIST CLOSED MODEL				
31	CENTERING NUT	STN. ST.	*	1074663 (429-X)	1
32	RETAINER NUT	BRASS	*	1074659 (429-TT)	1
33	PIPE PLUG (1/8" N.P.T.)	PLATED STEEL	*	1071917 (PLZ-0005)	1
		BRASS		1071903 (PLB-0007)	
		STN. STL.		1071916 (PLS-0002)	
34	SPRING		*	1074657 (429-SS)	1
35	O-RING		*	1079839 (ORB-222)	1
36	CAP	CAST IRON	*	1074616 (429-CC)	1
	POSITION INDICATOR MODEL				
37	CAP	CAST IRON	*	1074618 (429-CF)	1
38	O-RING		*	1071694 (ORB-128)	1
39	SHAFT GUIDE BUSHING		*	1074624 (429-GF)	1
40	INDICATOR SHAFT		*	1074649 (429-PM)	1
41	O-RING		*	1071688 (ORB-108TC)	1
42	TOP NUT		*	1074658 (429-TB)	1

NOTE:

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.

2. SPRING ASSIST OPEN MODEL NOT AVAILABLE.

CONVERSION KITS

DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27,29	1074639 (429-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 31 THRU 36	1074656 (429-SCC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 37 THRU 42	1074648 (429-PIC)

REPAIR PARTS KITS

DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27	1074638 (429-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,(12),6,7,9,12,16(2),22,30	1074654 (429-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 31,34,35	1074655 (429-SC)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 37 THRU 42	1074647 (429-PI)

VALVOLE IDROPNEUMATICHE IN NORYL / NORYL DIAPHRAGM VALVES

K52 **K52**

CARATTERISTICHE GENERALI:
Le valvole AquaMatic® K520 sono state progettate per l' impiego su impianti di demineralizzazione, per applicazioni dove si utilizzano acidi e/o basi e su idrocarburi. Le K520 nascono per supplire in tutte quelle applicazioni corrosive dove le valvole in metallo non trovano impiego. Esse sono costruite con materiali resistenti alla corrosione mantenendo tutte le pregevoli caratteristiche idrauliche e funzionali delle valvole in metallo. Il materiale di cui sono costituite è il Noryl (materiale termoplastico rinforzato con fibra di vetro).

DATI TECNICI
- Temperatura massima di esercizio: 60ºC (140ºF)
- Pressione di esercizio: 8.6 bar (125 PSI)
- Portate: vedi diagramma

SPECIFICHE PRODOTTO
- Materiale esterno di composizione: Noryl
- Parti interne: Noryl
- Attacchi con connettori: 1/2" - 1" - $1^{1/2"}$ - 2" - $2^{1/2"}$ - 3"
- Attacchi flangiati disponibili: 2" - $2^{1/2}$ - 3"

APPLICAZIONI:
- Sistemi per trattamento delle acque
- Deionizzatori
- Iniezione di rigeneranti
- Desalinizzatori
- Evaporatori
- Sistemi per il recupero dei metalli
- Sistemi di controllo dei livelli
- Sistemi spray di fertilizzazione
- Industria elettronica
- Lavorazioni di detergenti e candeggine

Per altre applicazioni, prego non esistate a contattare l' ufficio tecnico Hytek

OPZIONI:
- Normamlente chiusa
- Molla per l' assistenza alla chiusura
- Molla per l' assistenza all' apertura
- Limitatore di flusso

GENERAL FEATURES
AquaMatic® series K520 composite valves are designed to handle deionized water as well as acids, caustic harsh chemicals or gases that would rapidly corrode metal valves. The valves are constructed of corrosion-resistant materials, but still have all of the advantages of unparalleled AquaMatic® metal body valve design, along with their own design advantages.
The K520 series valve body and cap are molded with glass-filled Noryl thermoplastic.

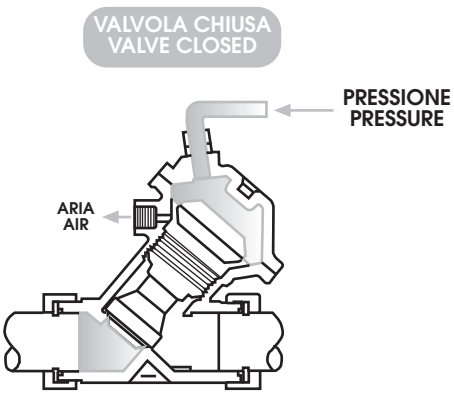
TECHNICAL SHEET:
- Maximum operating temperature: 140ºF (60ºC)
- Working Pressure: 125 PSI (8.6 bar)
- Flow rates: see diagram

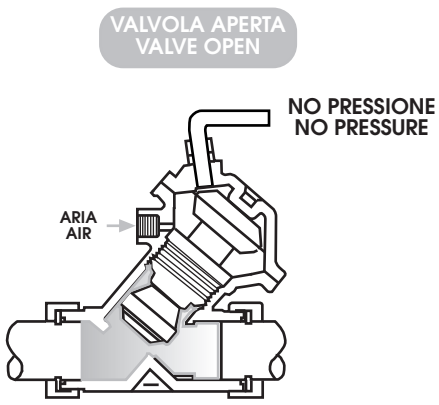
PRODUCT SPECIFICATIONS:
- External material: Noryl
- Internal parts: Noryl
- Pipe size with connectors: 1/2" - 1" - $1^{1/2"}$ - 2" - $2^{1/2"}$ - 3"
- Flanged pipe size: 2" - $2^{1/2}$ - 3"

APPLICATIONS:
- Water treatment process systems
- Deionizers
- Chemical Injection
- Desalinization
- Evaporation
- Metal Recovery Systems
- Level Control Systems
- Fertilizer Spray Equipments
- Electronic Industry
- Detergent and Bleach Handling

For other applications please contact Hytek technical office

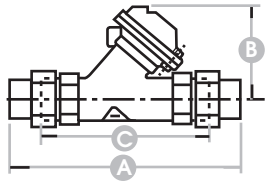
OPTIONS:
- Normally closed
- Spring assist closed
- Spring assist open
- Limit stop





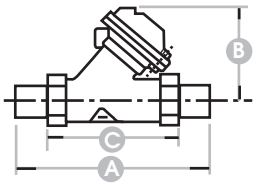
PORTATE E DIMENSIONI DELLE VALVOLE IN NORYL K52 / K52 FLOW THRU AND DIMENSIONS NORYL DIAPHRAGM VALVES

Valvola con connettori finali / Valve With Union End Connectors



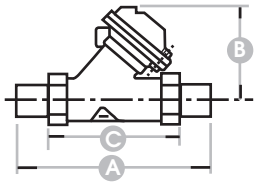
Modello Series	Unità Units	A	B	C
K520	inches	7.00	2.62	4.87
	mm	177.8	68.5	123.7
K521	inches	9.00	4.06	6.31
	mm	228.6	10.31	160.3
K524	inches	12.50	5.06	9.31
	mm	317.5	128.5	23.5

Valvola con connettori scanalati / Valve With Grooved Adaptor Connectors



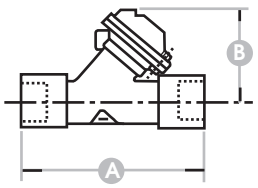
Modello Series	Unità Units	A	B	C
K520	inches	7.00	2.62	3.93
	mm	177.8	68.5	99.8
K521	inches	9.00	4.06	4.50
	mm	228.6	10.31	114.3
K524	inches	12.50	5.06	7.75
	mm	317.5	128.5	196.8

Valvola con connettori maschio incollaggio / Valve With Male Socket Weld End Connectors



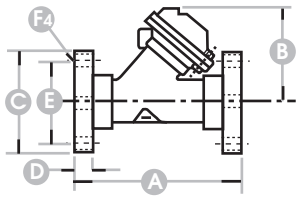
Modello Series	Attacchi Pipe	Unità Units	A	B
K524	2"	inches	7.00	2.62
		mm	266.7	128.5
K524	2-1/2"	inches	15.00	7.31
		mm	381.0	185.7

Valvola con connettori finali femmina / Valve With Female SocketWeld End Connectors



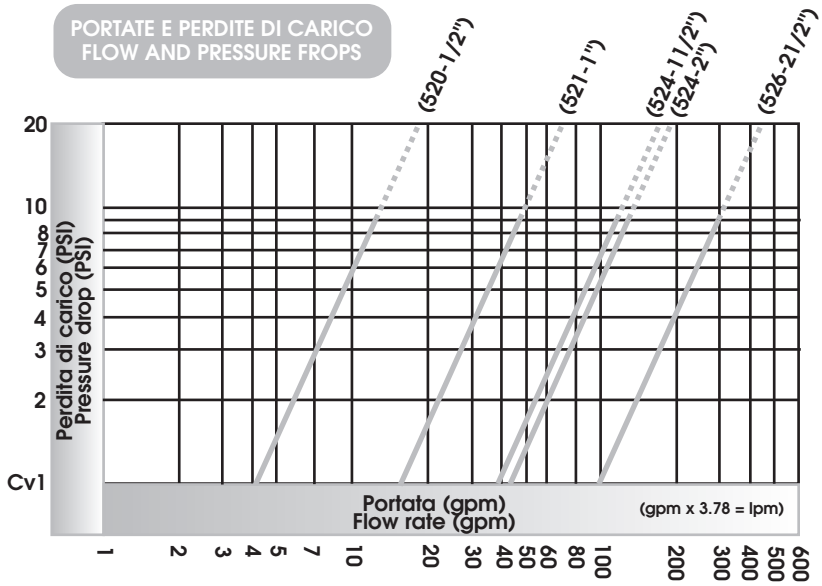
Modello Series	Attacchi Pipe	Unità Units	A	B
K524	2"	inches	10.50	5.06
		mm	266.7	128.5
K524	2-1/2"	inches	15.00	7.31
		mm	381.0	185.7

Valvola con connettori finali flangiati / Valve With Flanged Socket Weld End Connectors



Modello Series	Attacchi Pipe	Unità Units	A	B	C	D	E	F
K524	2"	inches	9.00	5.06	6.00	.75	4.750	.688
		mm	226.6	128.5	152.4	19.05	120.85	17.48
K526	2-1/2"	inches	11.37	7.31	6.94	.94	5.500	6.88
		mm	288.8	185.7	176.3	23.9	139.7	17.48
K526	3"	inches	12.37	7.31	7.38	1.81	6.000	.750
		mm	314.2	185.7	187.5	185.7	152.4	19.05

PORTATE E PERDITE DI CARICO / FLOW AND PRESSURE FROPS



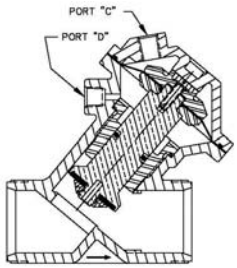
Portata massima in continuo alla velocità di 25 m/h
Maximum continous flow at velocity 20 ft/sec

Portata massima intermittente alla velocità di 37,5 m/h
Maximum intermittent flow at velocity 30 ft/sec

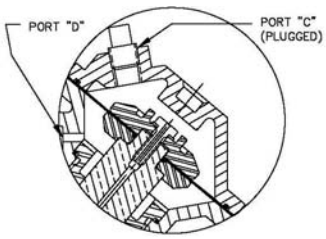
***Cv=Portata in GPM d' acqua @ 60°F (15.5°C) @ 1 PSI (.069 bar) di perdita di carico.**
***Cv=Flow rate in GPM of water @ 60°F (15.5°C) @ 1 PSI (.069 bar) drop.**

CONFIGURAZIONE VALVOLE IDROPNEUMATICHE IN NORYL - MODELLI STANDARD / NORYL DIAPHRAGM VALVES CONFIGURATIONS - STANDARD MODEL

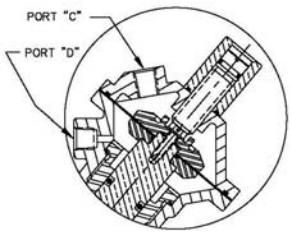
NORMALMENTE APERTA
NORMALY OPEN



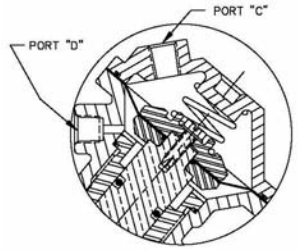
NORMALMENTE CHIUSA
NORMALY CLOSED



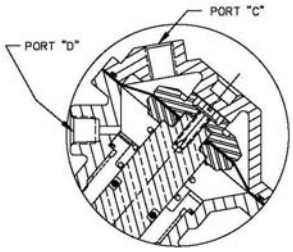
LIMITATORE DI PORTATA
LIMIT STOP



MOLLA ASSISTENZA ALLA CHIUSURA
SPRING ASSIST CLOSED



MOLLA ASSISTENZA ALL' APERTURA
SPRING ASSIST OPEN



PLASTIC DIAPHRAGM VALVES (520 THRU 526)

SERIES	PIPE SIZE	SEAT DIAMETER IN. / CM.	SEAT AREA SQ. IN. / SQ. CM.	DIAPHRAGM AREA SQ. IN. / SQ. CM.	TOTAL STROKE IN. / CM.	DIAPHRAGM CHAMBER (VOLUME) CUBIC IN. / CUBIC CM.	Cv *	Kv **	FLOW RATE @ 10 FT./SEC. (3 M./SEC.) NOTE 1 GAL./MIN. / CU.M/HR	FLOW RATE @ 20 FT./SEC. (6 M./SEC.) NOTE 2 GAL./MIN. / CU.M/HR	PRESSURE DROP @ 10 FT./SEC. (3 M./SEC.) NOTE 1 P.S.I. / bar	PRESSURE DROP @ 20 FT./SEC. (6 M./SEC.) NOTE 2 P.S.I. / bar
520	1/2"	.507 / 1.28	.20 / 1.30	.52 / 3.35	.28 / .71	.55 / 9.00	4.0	3.4	6.2 / 1.4	12.4 / 2.8	2.4 / 0.16	9.6 / 0.66
521	1"	.996 / 2.52	.77 / 4.96	2.07 / 13.35	.56 / 1.42	3.05 / 49.90	15.0	13.0	24 / 5.4	48 / 10.8	2.5 / 0.17	10.2 / 0.7
524	1 1/2"	1.62 / 4.11	2.06 / 13.28	3.86 / 24.89	1.00 / 2.54	7.32 / 119	38.0	32.7	64 / 14.4	128 / 28.8	2.8 / 0.19	11.3 / 0.78
526	2 1/2"	2.37 / 6.01	4.40 / 28.38	8.32 / 53.66	1.62 / 4.11	12.20 / 200	100.0	86.0	136 / 31.0	272 / 62.0	1.8 / 0.12	7.4 / 0.51

* Cv – FLOWRATE (GAL./MIN.) OF WATER AT 60° F. AT 1 P.S.I. PRESSURE DROP
** Kv – FLOWRATE (CU. M./HR) OF WATER AT 15.5° C. AT 1 BAR PRESSURE DROP

NOTE 1: MAXIMUM CONTINUOUS VELOCITY THROUGH THE VALVE.
NOTE 2: MAXIMUM CONTINUOUS VELOCITY. EXTENDED SERVICE AT THIS VELOCITY MAY CAUSE CAVITATION.

TO DETERMINE FLOWRATE AT ANY GIVEN PRESSURE DROP, THE FOLLOWING FORMULAS CAN BE USED.

FOR WATER AND LIQUIDS:

$$Q = \frac{Cv\sqrt{\Delta P}}{\sqrt{e}}$$

Q – FLOWRATE IN GAL./MIN.
ΔP – PRESSURE DROP (LB./SQ. IN.)
e – SPECIFIC GRAVITY (WATER = 1.00)

FOR AIR AND GAS:

WHEN P2 < .5P1

$$Cv = \frac{CFM\sqrt{e}}{.5P1}$$

WHEN P2 > .5P1

$$Cv = \frac{CFM\sqrt{e}}{\sqrt{\Delta P\ P2}}$$

CFM – CU. FT./MIN. FLOW
e – SPECIFIC GRAVITY (AIR = 1.00)
P1 – INLET PRESSURE (LB./SQ. IN.)
P2 – OUTLET PRESSURE (LB./SQ. IN.)

THE DATA PRESENTED HERE IS BELIEVED TO BE RELIABLE AND OFFERED AS SUGGESTION ONLY. ACTUAL RESULTS MAY VARY DEPENDING UPON APPLICATION.

CONNETTORI FINALI E KIT PER VALVOLE DA 1/2" - 1" - 11/2" / 1/2" - 1" - 11/2" END CONNECTOR PARTS & KITS

FEMALE SOCKET WELD END CONNECTOR

VALVE SERIES	STANDARD	DIAMETER A	DEPTH B	TAPER C
520	A.S.T.M. 1/2"	.848/.856"	.875"	0°, 24'
	I.S.O. NW-15	20.1/20.3 MM	22.2 MM	0°, 15'
	J.I.S. 16	21.9/22.3 MM	22.2 MM	0°, 19'
521	A.S.T.M. 1"	1.325/1.335"	1.125"	0°, 23'
	I.S.O. NW-25	32.1/32.3 MM	28.6 MM	0°, 15'
	J.I.S. 25	31.9/32.4 MM	28.6 MM	0°, 16'
524	A.S.T.M. 1-1/2"	1.912/1.924"	1.375"	0°, 23'
	I.S.O. NW-40	50.1/50.3 MM	34.9 MM	0°, 15'
	J.I.S. 40	47.9/48.5 MM	34.9 MM	0°, 16'

VALVE SERIES	UNITS	LENGTH A	LENGTH B	HEIGHT C
520	INCHES	7.00	4.87	2.62
	MM	177.8	123.7	66.5
521	INCHES	9.00	6.31	4.06
	MM	228.6	160.3	103.1
524	INCHES	12.50	9.31	5.06
	MM	317.5	23.5	128.5

UNION END ADAPTOR

NO.	DESCRIPTION		PART NO.
SERIES 520 UNION END ADAPTOR			
1	TAILPIECE NUT	A.S.T.M. 1/2"	1074995 -K520104-
2	FEMALE SOCKET WELD END CONNECTOR	A.S.T.M. 1/2"	1074991 -K52007-
		I.S.O. NW-15	1074992 -K52008-
		J.I.S. 16	1074993 -K52009-
3	O-RING	E.P.D.M.	1071730 -ORE-117-
		BUTYL	1071766 -ORA-117-
		FKM	1071801 -ORV-117-
4	TAILPIECE		1074996 -K52011K-
5	O-RING	E.P.D.M.	1071731 -ORE-120-
		BUTYL	1071767 -ORA-120-
		FKM	1071802 -ORV-120-
SERIES 521 UNION END ADAPTOR			
1	TAILPIECE NUT	A.S.T.M. 1"	1075067 -K52107K-
2	FEMALE SOCKET WELD END CONNECTOR	A.S.T.M. 1"	1075061 -K52107-
		I.S.O. NW-25	1075063 -K52108-
		J.I.S. 25	1075065 -K52109-
3	O-RING	E.P.D.M.	1071732 -ORE-125-
		BUTYL	1071768 -ORA-125-
		FKM	1071803 -ORV-125-
4	TAILPIECE		1075068 -K52111K-
5	O-RING	E.P.D.M.	1071733 -ORE-128-
		BUTYL	1071769 -ORA-128-
		FKM	1071804 -ORV-128-
SERIES 524 UNION END ADAPTOR			
1	TAILPIECE NUT		1075150 -K52410K-
2	FEMALE SOCKET WELD END CONNECTOR	A.S.T.M. 1 1/2"	1075144 -K52407-
		I.S.O. NW-40	1075146 -K52408-
		J.I.S. 40	1075148 -K52409-
3	O-RING	E.P.D.M.	1071735 -ORE-137-
		BUTYL	1071771 -ORA-137-
		FKM	1071807 -ORV-137-
4	TAILPIECE		1075151 -K52411K-
5	O-RING	E.P.D.M.	1071736 -ORE-139-
		BUTYL	1071772 -ORA-139-
		FKM	1071808 -ORV-139-

SERIES 520 UNION END ADAPTOR KITS

A.S.T.M. 1/2" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070184 -K520100-
	BUTYL O-RING	1070185 -K520101-
	FKM O-RING	1070186 -K520102-
I.S.O. NW-15 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070190 -K520103-
	BUTYL O-RING	1070191 -K520104-
	FKM O-RING	1070192 -K520105-
J.I.S. - 16 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070193 -K520106-
	BUTYL O-RING	1070194 -K520107-
	FKM O-RING	1070195 -K520108-

SERIES 521 UNION END ADAPTOR KITS

A.S.T.M. 1" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070202 -K521100-
	BUTYL O-RING	1070153 -K521101-
	FKM O-RING	1070154 -K521102-
I.S.O. NW-25 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070204 -K521103-
	BUTYL O-RING	1071155 -K521104-
	FKM O-RING	1071156 -K521105-
J.I.S. - 25 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070205 -K521106-
	BUTYL O-RING	1071157 -K521107-
	FKM O-RING	1071158 -K521108-

SERIES 524 UNION END ADAPTOR KITS

A.S.T.M. 1-1/2" INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070208 -K524100-
	BUTYL O-RING	1071220 -K524101-
	FKM O-RING	1070209 -K524102-
I.S.O. NW-40 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070212 -K524103-
	BUTYL O-RING	1071221 -K524104-
	FKM O-RING	1070213 -K524105-
J.I.S. - 40 INCLUDES ITEMS 1,2,3,4,5	E.P.D.M. O-RING	1070214 -K524106-
	BUTYL O-RING	1071222 -K524107-
	FKM O-RING	1070215 -K524108-

NOTE: ALL ADAPTOR KITS CONTAIN (2) ADAPTORS, (ONE KIT REQ'D PER VALVE)

SEE FORM 1078152 FOR SOCKET WELD & FLANGED ADAPTORS

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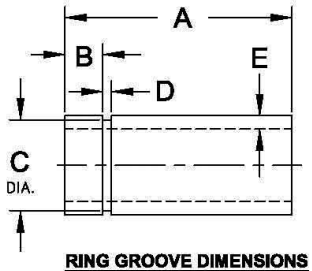
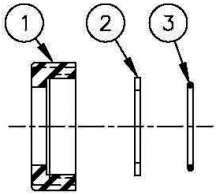


RING GROOVE DIMENSIONS

VALVE SERIES	UNITS	LENGTH A	LOCATION B	DIA. C	WIDTH D	WALL THK E
520	INCHES	2.25	0.500	0.730	0.115	0.147
	MM	57.2	12.7	18.5	2.9	3.7
521	INCHES	3.00	0.500	1.200	0.115	0.179
	MM	76.2	12.7	30.5	2.9	4.55
524	INCHES	4.00	0.875	1.800	0.115	0.200
	MM	57.2	22.2	45.7	2.9	5.1



RETAINER NUT/SPLIT RING CONNECTOR

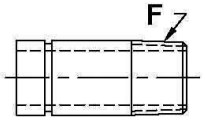
	VALVE SERIES		520	521	524
1	RETAINER NUT		1074974 ~~520-MK~~	1075041 ~~521-MK~~	1075112 ~~524-MK~~
2	SPLIT RING		1074975 ~~520-N~~	1075042 ~~521-N~~	1075113 ~~524-N~~
3	O-RING	E.P.D.M.	1071730 ~~ORE-117~~	1071732 ~~ORE-125~~	1071734 ~~ORE-132~~
		BUTYL	1071766 ~~ORU-117~~	1071768 ~~ORU-125~~	1071770 ~~ORU-132~~
		FKM	1071801 ~~ORV-117~~	1071803 ~~ORV-125~~	1071805 ~~ORV-132~~

RETAINER NUT/SPLIT RING CONNECTOR KITS

SERIES 520 INCLUDES ITEMS 1,2,3	E.P.D.M. O-RING	1070238	~~K520109~~
	BUTYL O-RING	1070239	~~K520110~~
	FKM O-RING	1070240	~~K520111~~
SERIES 521 INCLUDES ITEMS 1,2,3	E.P.D.M. O-RING	1070244	~~K521109~~
	BUTYL O-RING	1071159	~~K521110~~
	FKM O-RING	1071160	~~K521111~~
SERIES 524 INCLUDES ITEMS 1,2,3	E.P.D.M. O-RING	1070246	~~K524109~~
	BUTYL O-RING	1071223	~~K524110~~
	FKM O-RING	1070247	~~K524111~~

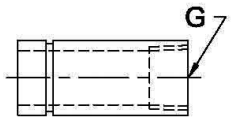
NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS, (ONE KIT REQ'D PER VALVE)

GROOVED ADAPTOR KITS



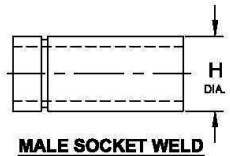
MALE PIPE THREAD

VALVE SERIES	520	521	524
PART NO.	1070221 ~~K520-P~~	1070227 ~~K521-P~~	1070233 ~~K524-P~~
DIM. F	1/2" NPT	1" NPT	1-1/2" NPT



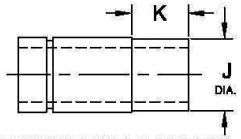
FEMALE PIPE THREAD

VALVE SERIES	520	521	524	
PART NO.	1070222 ~~K520-PA~~	1070228 ~~K521-PA~~	1070234 ~~K524-PA~~	~~K524-PF~~
DIM. G	3/8" NPT	3/4" NPT	1-1/4" NPT	1-1/4" BSP



MALE SOCKET WELD

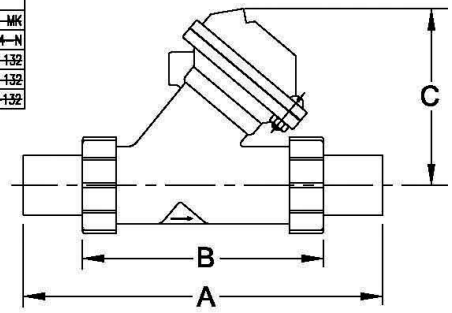
VALVE SERIES	520	521	524
PART NO.	1070220 ~~K520-PC~~	1070226 ~~K521-PC~~	1070232 ~~K524-PC~~
DIM. H	0.840 IN. 21.3 MM	1.315 IN. 33.4 MM	1.900 IN. 48.3 MM



MALE SOCKET WELD (METRIC)

VALVE SERIES	520	521	524
PART NO.	1071057 ~~K520-PE~~	1071091 ~~K521-PE~~	1071162 ~~K524-PE~~
DIM. J	20.2 MM	32.2 MM	50.2 MM
DIM. K	15.9 MM	25.4 MM	30.0 MM

NOTE: ALL ADAPTOR KITS CONTAIN (2) ADAPTORS, (ONE KIT REQ'D PER VALVE)



VALVE SERIES	UNITS	LENGTH A	LENGTH B	HEIGHT C
520	INCHES	7.00	3.93	2.62
	MM	177.8	99.8	66.5
521	INCHES	9.00	4.50	4.06
	MM	228.6	114.3	103.1
524	INCHES	13.25	7.75	5.06
	MM	336.5	196.9	128.5

SEE FORM 1078152 FOR SOCKET WELD & FLANGED ADAPTORS FORM NO. 1081309

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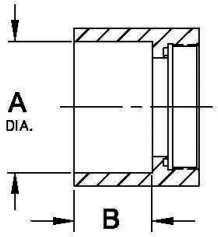
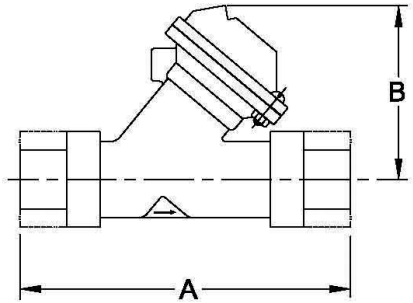


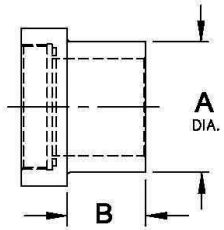
FEMALE SOCKET WELD END CONNECTOR KITS

VALVE SERIES	STANDARD	PART NO. *	DIAMETER A	DEPTH B
524	A.S.T.M. 2"	K524–UF08U_P	2.376/2.384"	1.50"
	I.S.O. NW–50	K524–UF50M_P	2.484/2.492"	1.50"
	J.I.S. 50	K524–UF50J_P	2.359/2.383"	1.50"
526	A.S.T.M. 2–1/2"	K526–UF10U_P	2.875"	1.81"
	I.S.O. NW–65	K526–UF65M_P	2.956/2.964"	1.81"
	J.I.S. 65	K526–UF65J_P	3.008"	1.81"

NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS AND (2) O–RINGS* (ONE KIT REQ'D. PER VALVE)



VALVE SERIES	PIPE SIZE	UNITS	LENGTH A	HEIGHT B
524	2"	INCHES	10.50	5.06
		MM	266.7	128.5
526	2-1/2"	INCHES	15.00	7.31
		MM	381.0	185.7



MALE SOCKET WELD END CONNECTOR KITS

VALVE SERIES	STANDARD	PART NO. *	DIAMETER A	LENGTH B
524	A.S.T.M. 2"	K524–UM08U_P	2.375/2.370"	1.50"
	I.S.O. NW–50	K524–UM50M_P	2.490/2.486"	1.50"
	J.I.S. 50	K524–UM50J_P	2.384/2.364"	1.00"
526	A.S.T.M. 2–1/2"	K526–UM10U_P	2.882/2.868"	1.69"
	I.S.O. NW–65	K526–UM65M_P	2.965/2.953"	1.69"
	J.I.S. 65	K526–UM65J_P	3.017/2.997"	1.38"

O-RING FOR SOCKET WELD END CONNECTORS

VALVE SERIES	MATERIAL	PART NO.	O-RING IDENTIFIER
524	E.P.D.M.	1071750 ~~ORE–226~~	E
	BUTYL	1079844 ~~ORJ–226~~	J
	FKM	1071821 ~~ORV–226~~	V
526	E.P.D.M.	1071753 ~~ORE–232~~	E
	BUTYL	1071783 ~~ORJ–232~~	J
	FKM	1071825 ~~ORV–232~~	V

*WHEN ORDERING KITS, INSERT O–RING IDENTIFIER INTO PART NUMBER AS SHOWN BELOW
EXAMPLE: K524–UF08UEP (2" FEMALE SOCKET WELD WITH E.P.D.M. O–RING)

O–RING IDENTIFIER

FORM NO. 1081311

SEE FORM 1078142 FOR SOCKET WELD & PIPE ADAPTORS

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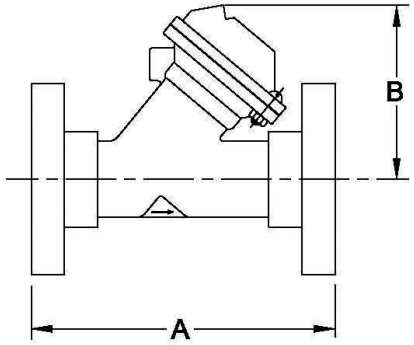
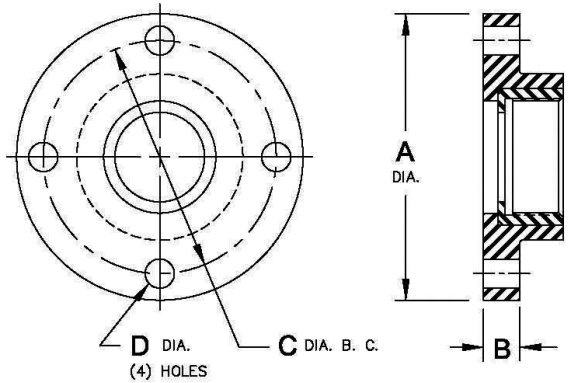


VALVE SERIES	PIPE SIZE	UNITS	LENGTH A	HEIGHT B
524	2"	INCHES	9.00	5.06
		MM	228.6	128.5
526	2-1/2"	INCHES	11.37	7.31
		MM	288.8	185.7
526	3"	INCHES	12.37	7.31
		MM	314.2	185.7



FLANGED END CONNECTOR KITS

VALVE SERIES	STANDARD	PART NO.	DIAMETER A	THICKNESS B	DIAMETER C	DIAMETER D
524	A.S.T.M. 2"	1070250 ~~K524-V~~	6.00"	.75"	4.750"	.688"
526	A.S.T.M. 2-1/2"	1070251 ~~K526-L~~	6.94"	.94"	5.500"	.688"
	A.S.T.M. 3"	1070252 ~~K526-T~~	7.38	1.81"	6.000"	.750"

NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS, (ONE KIT REQ'D PER VALVE)

O-RING FOR SOCKET WELD END CONNECTORS

VALVE SERIES	MATERIAL	PART NO.
524	E.P.D.M.	1071750 ~~ORE-226~~
	BUTYL	1079844 ~~ORJ-226~~
	FKM	1071821 ~~ORV-226~~
526	E.P.D.M.	1071753 ~~ORE-232~~
	BUTYL	1071783 ~~ORJ-232~~
	FKM	1071825 ~~ORV-232~~

SEE FORM 1078142 FOR SOCKET WELD & PIPE ADAPTORS
FORM NO. 1081311

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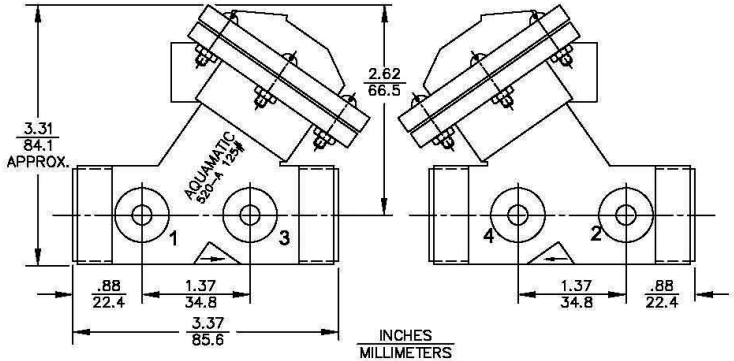
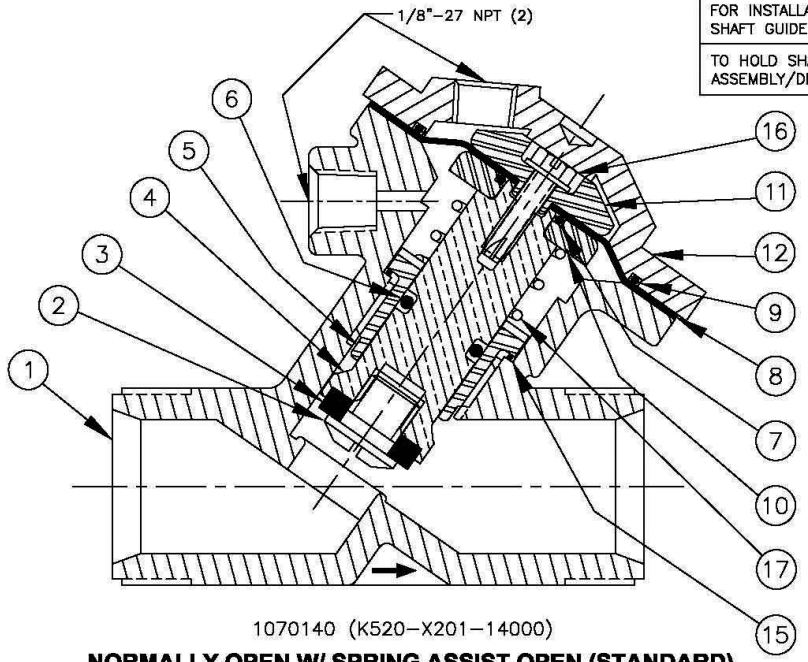


REPAIR PARTS KITS		
DESCRIPTION	PART NO.	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,6,7,8,9,15	1081784 (520-RAN) E.P.D.M. INCLUDES DIAPHRAGM 1078035	1081783 (520-RAJN) BUTYL INCLUDES DIAPHRAGM 1078035
	1081787 (520-RAVN) FKM INCLUDES DIAPHRAGM 1078035	1081786 (520-RAVFVN) FKM INCLUDES DIAPHRAGM 1078047
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 2,4,5,10,11,16	1079600 (K520-RFN)	

ASSEMBLY TOOLS	
DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #5)	1074989 (520-Z)
TO HOLD SHAFT (ITEM #4) DURING ASSEMBLY/DISASSEMBLY	1077834

NO.	DESCRIPTION		PART NO.	QTY.
1	BODY		1074943 (520-AK)	1
2	DISC SCREW		1077903	1
3	DISC	E.P.D.M.	1074966 (520-J)	1
		BUTYL	1074967 (520-JJ)	
		FKM	1074968 (520-JV)	
4	SHAFT (NORYL)		1077854	1
5	SHAFT GUIDE (NORYL)		1074964 (520-GN)	1
6	O-RING	E.P.D.M.	1071727 (ORE-111)	1
		BUTYL	1071764 (ORJ-111)	
		FKM	1071799 (ORV-111)	
7	O-RING	E.P.D.M.	1071717 (ORE-012)	1
8	DIAPHRAGM	BUNA N	1078035	1
		FKM	1078047	
9	O-RING	BUNA N	1071679 (ORB-030)	1
10	LWR DIAPH. PLATE		1077858	1
11	UPR DIAPH. PLATE		1077856	1
12	CAP		1074948 (520-BOK)	1
13	RD. HD. MACH. SCR.		1072379 (SCS-0094)	6
14	HEX NUT		1071647 (NUS-0005)	6
15	O-RING	E.P.D.M.	1071720 (ORE-018)	1
		BUTYL	1071762 (ORJ-018)	
		FKM	1071790 (ORV-018)	
16	SCREW		1077781	1
17	SPRING		1074985 (520-SS)	1



1070140 (K520-X201-14000)

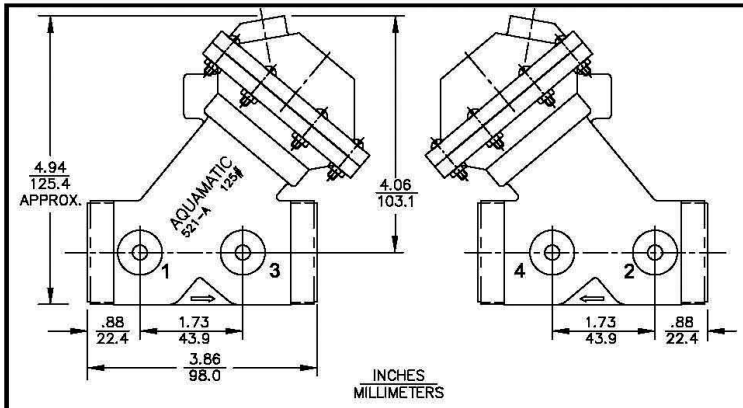
NORMALLY OPEN W/ SPRING ASSIST OPEN (STANDARD)

SEE SHEET 1078140 FOR UNION END CONNECTORS
SEE SHEET 1078141 FOR GROOVED ADAPTORS

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1078139

PRINTED IN U.S.A.



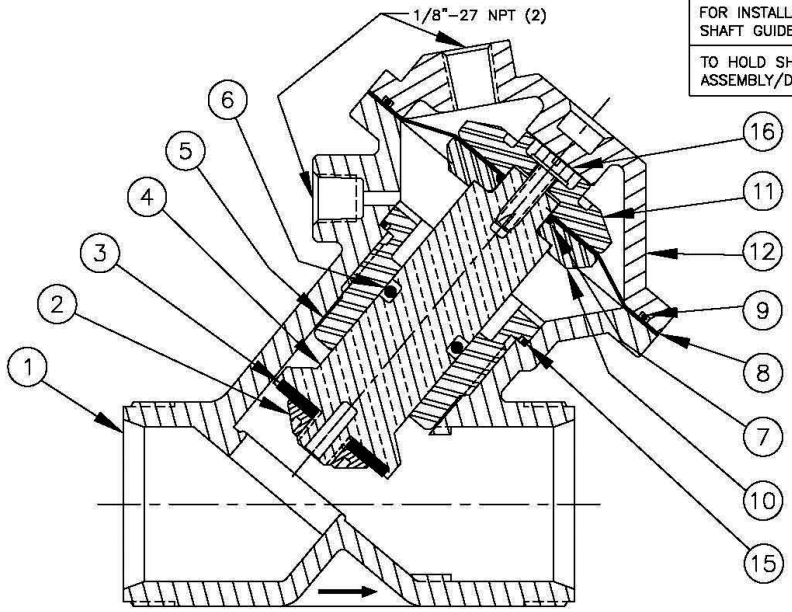
REPAIR PARTS KITS

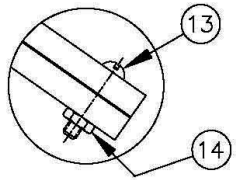
DESCRIPTION	PART NO.	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,6,7,8,9,15	1081792 (521-RAN) E.P.D.M. INCLUDES DIAPHRAGM 1075028 (521-FB)	1081791 (521-RAJN) BUTYL INCLUDES DIAPHRAGM 1075028 (521-FB)
	1081796 (521-RAVN) FKM INCLUDES DIAPHRAGM 1075028 (521-FB)	1081795 (521-RAVFW) FKM INCLUDES DIAPHRAGM 1075029 (521-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 2,4,5,10,11,16	1079621 (K521-RFN)	

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #5)	1075059 (521-Z)
TO HOLD SHAFT (ITEM #4) DURING ASSEMBLY/DISASSEMBLY	1077837

NO.	DESCRIPTION		PART NO.	QTY.
1	BODY		1075007 (521-AK)	1
2	DISC PLATE NUT		1075845	1
3	DISC	E.P.D.M.	1077814	1
		BUTYL	1077815	
		FKM	1077816	
4	SHAFT		1075842	1
5	SHAFT GUIDE (NORYL)		1075030 (521-GN)	1
6	O-RING	E.P.D.M.	1071743 (ORE-208)	1
		BUTYL	1071775 (ORJ-208)	
		FKM	1071814 (ORV-208)	
7	O-RING	E.P.D.M.	1071718 (ORE-014)	1
8	DIAPH.	BUNA N	1075028 (521-FB)	1
		FKM	1075029 (521-FV)	
9	O-RING	BUNA N	1071715 (ORB-805)	1
10	LWR DIAPH. PLATE		1075844	1
11	UPR DIAPH. PLATE		1075843	1
12	CAP		1075012 (521-BOK)	1
13	RD. HD. MACH. SCR.		1072380 (SCS-0095)	8
14	HEX NUT		1071648 (NUS-0006)	8
15	QUAD-RING	ETH. PROP.	1071942 (QRE-029)	1
		BUTYL	1071943 (QRJ-029)	
		FKM	1071944 (QRV-029)	
16	SCREW		1077783	1





SEE FORM 1078142 FOR UNION END CONNECTORS AND GROOVED ADAPTORS

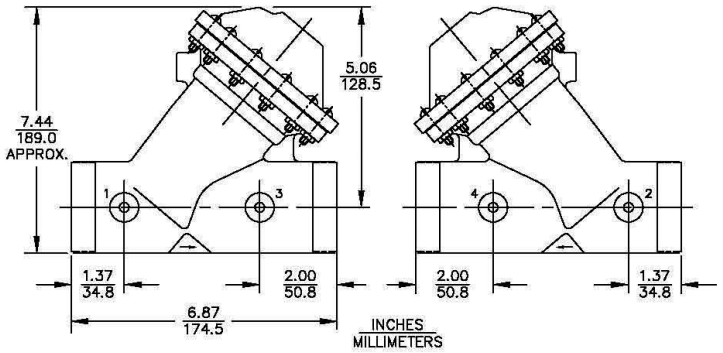
SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077654

1070154 (K521-X200-14000)

NORMALLY OPEN (STANDARD)

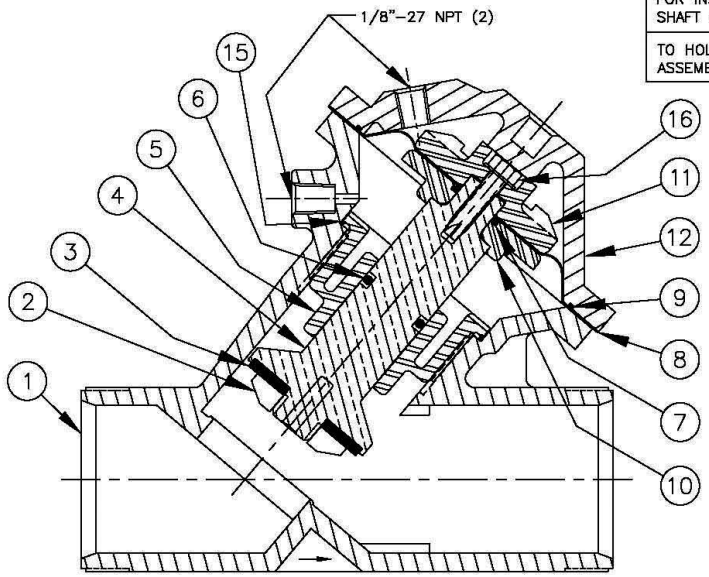
PRINTED IN U.S.A.

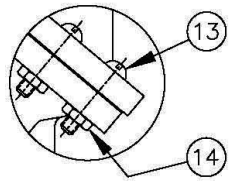


REPAIR PARTS KITS		
DESCRIPTION	PART NO.	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,6,7,8,9,15	1070274 (524-RAN) E.P.D.M. INCLUDES DIAPHRAGM 1075104 (524-FB)	1077592 (524-RAJN) BUTYL INCLUDES DIAPHRAGM 1075104 (524-FB)
	1070290 (524-RAVN) VITON INCLUDES DIAPHRAGM 1075104 (524-FB)	1077583 (524-RAVFVN) VITON INCLUDES DIAPHRAGM 1075105 (524-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 2,4,5,10,11,16	1070298 (K524-RFN)	

ASSEMBLY TOOLS	
DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #5)	1075143 (524-Z)
TO HOLD SHAFT (ITEM #4) DURING ASSEMBLY/DISASSEMBLY	1077837

NO.	DESCRIPTION		PART NO.	QTY.
1	BODY		1075079 (524-AK)	1
2	DISC PLATE		1076198	1
3	DISC	E.P.D.M.	1075107 (524-J)	1
		BUTYL	1075108 (524-JJ)	
		VITON	1075109 (524-JV)	
4	SHAFT		1076205	1
5	SHAFT GUIDE		1075106 (524-GK)	1
6	O-RING	E.P.D.M.	1071744 (ORE-210)	1
		BUTYL	1071776 (ORJ-210)	
		VITON	1071815 (ORV-210)	
7	O-RING	E.P.D.M.	1071728 (ORE-113)	1
8	DIAPH.	BUNA N	1075104 (524-FB)	1
		VITON	1075105 (524-FV)	
9	O-RING	BUNA N	1071686 (ORB-043)	1
10	LWR DIAPH. PLATE		1076197	1
11	UPR DIAPH. PLATE		1076196	1
12	CAP		1075086 (524-BOK)	1
13	RD. HD. MACH. SCR.		1072381 (SCS-0097)	12
14	HEX NUT		1071648 (NUS-0006)	12
15	O-RING	ETH. PROP.	1071735 (ORE-137)	1
		BUTYL	1071771 (ORJ-137)	
		VITON	1071807 (ORV-137)	
16	SCREW		1077101 (SCS-0168)	1





SEE FORM 1078142 FOR UNION END CONNECTORS AND GROOVED ADAPTORS

SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS

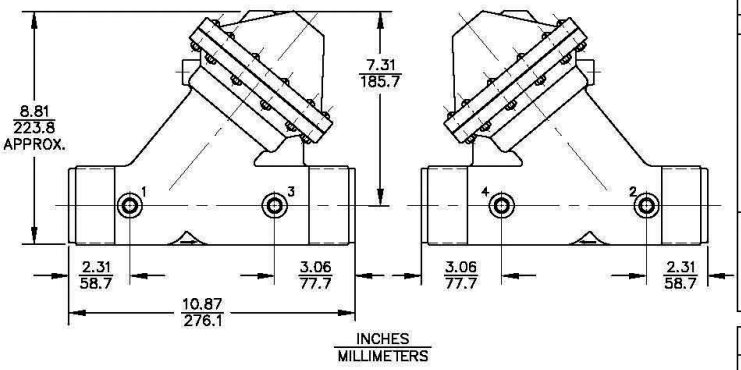
SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077655

1070168 (K524-X200-14000)

NORMALLY OPEN (STANDARD)

PRINTED IN U.S.A.



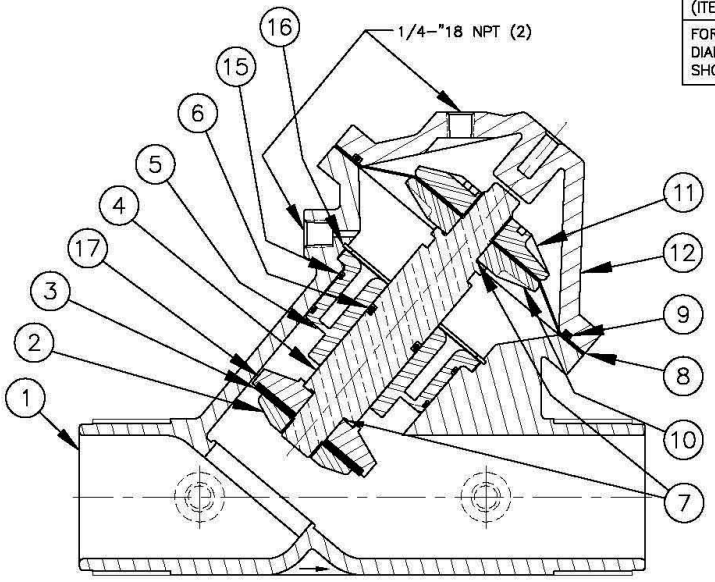
REPAIR PARTS KITS

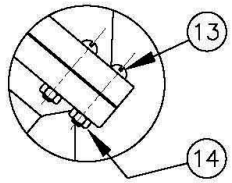
DESCRIPTION	PART NO.	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,6,7(2),8,9,15(2)	1070275 (526-RA) E.P.D.M. INCLUDES DIAPHRAGM 1075177 (526-FB)	1070283 (526-RAJ) BUTYL INCLUDES DIAPHRAGM 1075177 (526-FB)
	1070291 (526-RAV) VITON INCLUDES DIAPHRAGM 1075177 (526-FB)	
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 2,4,5,10,11,17	1070299 (K526-RF)	

ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT (ITEM #4) (TOOL NOT SHOWN)	1075060 (521-ZA)
FOR INSTALLATION & REMOVAL OF UPPER DIAPHRAGM PLATE (ITEM #11) (TOOL NOT SHOWN)	1075224 (526-Z)

NO.	DESCRIPTION		PART NO.	QTY.
1	BODY		1075162 (526-AK)	1
2	DISC PLATE		1075176 (526-EK)	1
3	DISC	E.P.D.M.	1075181 (526-J)	1
		BUTYL	1075182 (526-JJ)	
		VITON	1075183 (526-JV)	
4	SHAFT	PVC	1075169 (526-C)	1
		NORYL	1075172 (526-CN)	
5	SHAFT GUIDE		1075178 (526-GK)	1
6	O-RING	E.P.D.M.	1071746 (ORE-214)	1
		BUTYL	1071778 (ORJ-214)	
		VITON	1071817 (ORV-214)	
7	O-RING	BUNA N	1071673 (ORB-018)	2
		VITON	1071790 (ORV-018)	
8	DIAPHRAGM	BUNA N	1075177 (526-FB)	1
9	O-RING	BUNA N	1071713 (ORB-251)	1
10	LWR DIA. PLATE		1075174 (526-DK)	1
11	UPR DIA. PLATE		1075173 (526-DDK)	1
12	CAP		1075167 (526-BOK)	1
13	RD. HD. MACH. SCR.		1072382 (SCS-0098)	12
14	HEX NUT		1071648 (NUS-0006)	12
15	O-RING	ETH. PROP.	1071738 (ORE-148)	2
		BUTYL	1071773 (ORJ-148)	
		VITON	1071810 (ORV-148)	
16	RETAINING RING		1075180 (526-HA)	1
17	DISC HOLDER	PVC	1075197 (526-RP)	1
		NORYL	1075196 (526-RN)	





SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077656

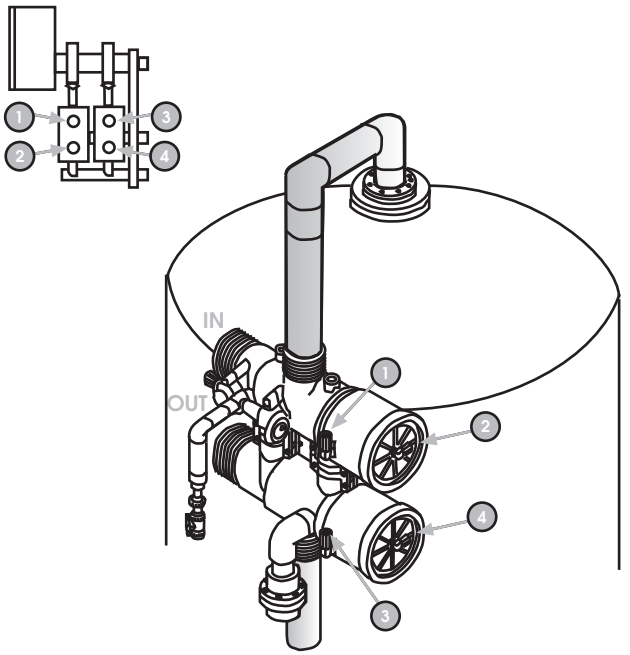
1070180 (K526-X200-14000)

NORMALLY OPEN (STANDARD)

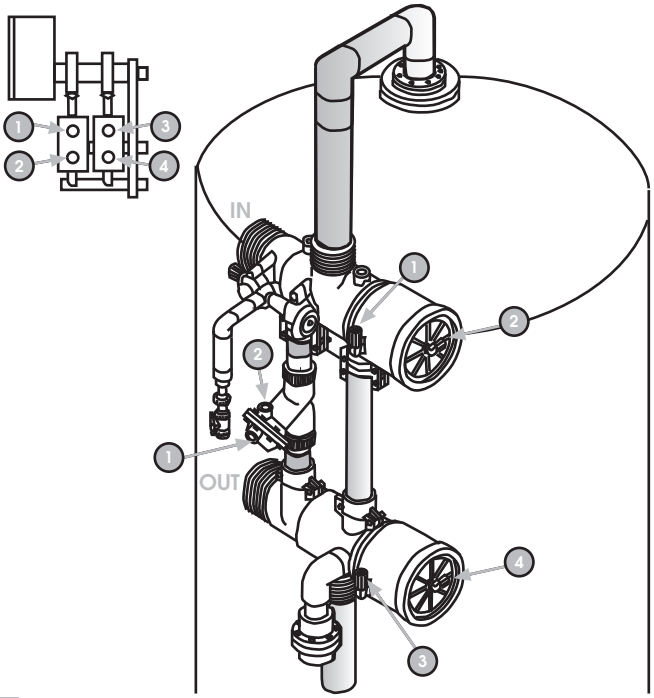
PRINTED IN U.S.A.

APPLICAZIONI / APPLICATIONS

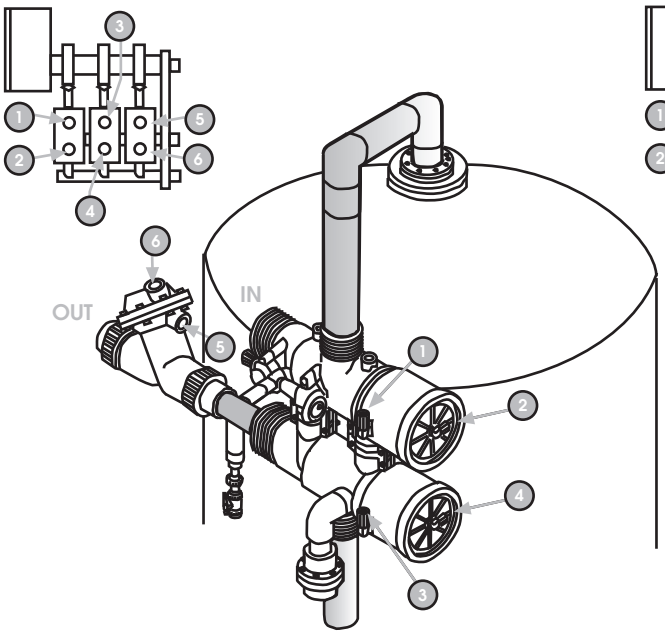
1 Addolcitore singolo con timer 2 piloti. Valvola utilizzabile: V260A/06. By-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola instabile), by-pass acqua dura durantela rigenerazione. Controllo salamoia tramite valvola TD0145 o TD0145-A.
Single softener system with timer 2 pilots. Usable valve: V260A/06. By-pass hard water during the service with instabil valve if increase the request at use, by-pass hard water during the regeneration.Brine control by TD0145 o TD0145-A.



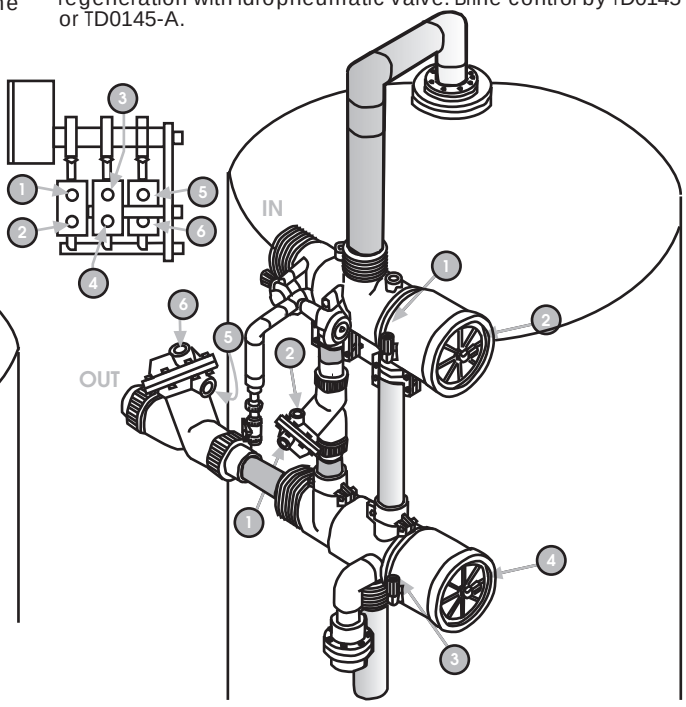
2 Addolcitore o filtro singolo con timer 2 piloti. Valvole utilizzabili: V260A/06, V260F/06 . No by-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola idropneumatica), by-pass acqua dura durante la rigenerazione. Controllo salamoia tramite valvola TD0145 o TD0145-A.
Single softener system with timer 2 pilots. Usable valves: V260A/06, V260F/06. No by-pass hard water during the service with idropneumatic valve, by-pass hard water during the regeneration. Brine control by TD0145 o TD0145-A.



3 Addolcitore singolo con timer 3 piloti. Valvola utilizzabile: V260A/06. By-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola instabile), no by-pass acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola TD0145 o TD0145-A.
Single softener system with timer 3 pilots. Usable valve: V260A/06. By-pass hard water during the service with instabil valve if increase the request at use, no By-pass hard water during the regeneration with idropneumatic valve. Brine control by TD0145 o TD0145-A.

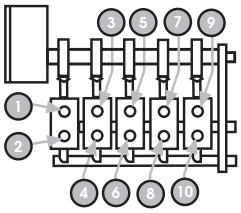


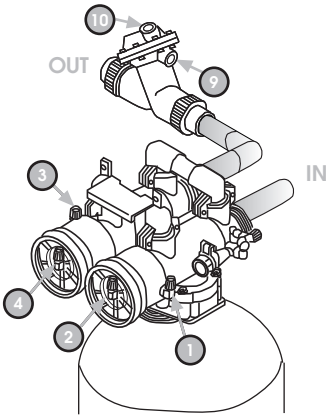
4 Addolcitore o filtro singolo con timer 3 piloti. Valvole utilizzabili: V260A/06, V260F/06 . No By-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola idropneumatica), no by-pass acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola TD0145 o TD0145-A.
Single softener or filter system with timer 3 pilots. Usable valves: V260A/06, V260F/06 . No by-pass hard water during the service with idropneumatic valve, no By-pass hard water during the regeneration with idropneumatic valve. Brine control by TD0145 or TD0145-A.

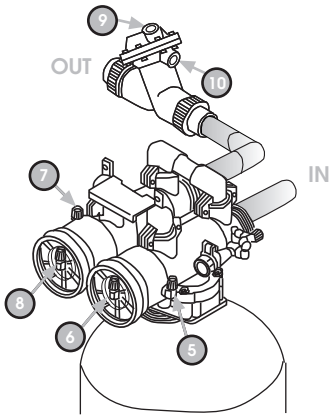


5 Addolcitore duplex alternato con timer 5 piloti. Valvola utilizzabile: V250A/06. By-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola instabile), no by-pass acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola TD0145 o TD0145-A.

Alternate duplex softener system with timer 5 pilots. Usable valve: V250A/06. By-pass hard water during the service if increase the request at use with instabil valve, no By-pass hard water during the regeneration with idropneumatic valve. Brine control by TD0145 o TD0145-A.

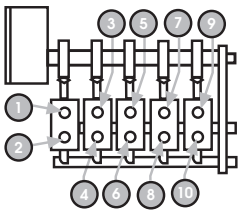


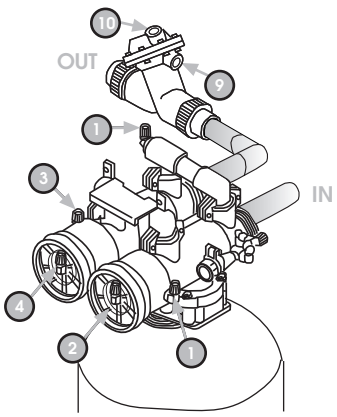


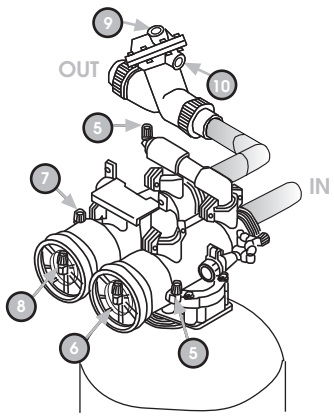


6 Addolcitore o filtro duplex alternato con timer 5 piloti. Valvole utilizzabili: V250A-NB/06, V250F/08 . No By-pass acqua dura durante il servizio (tramite valvola di controlavaggio), no by-pass acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola TD0145 o TD0145-A.

Duplex softener or filter system with timer 3 pilots. Usable valves: V250A/06, V250F/08. No by-pass hard water during the service with no by pass manifold valve, no by-pass hard water during the regeneration with idropneumatic valve. Brine control by TD0145 o TD0145-A.

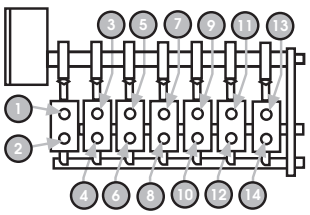


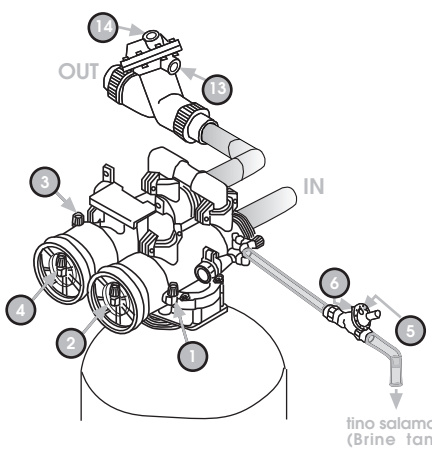


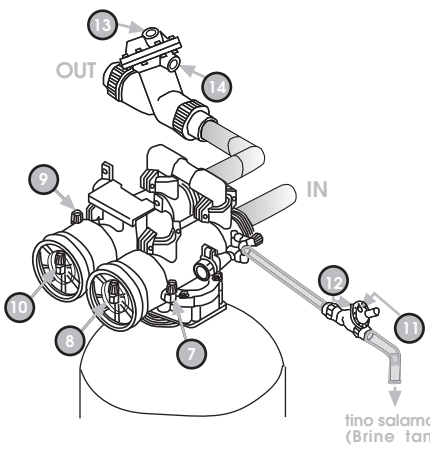


7 Addolcitore duplex alternato con timer 7 piloti. Valvola utilizzabile: V250A/06. By-pass acqua dura durante il servizio in caso di aumento della richiesta (tramite valvola instabile), no by-pass acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo aspirazione salamoia tramite valvola idropneumatica.

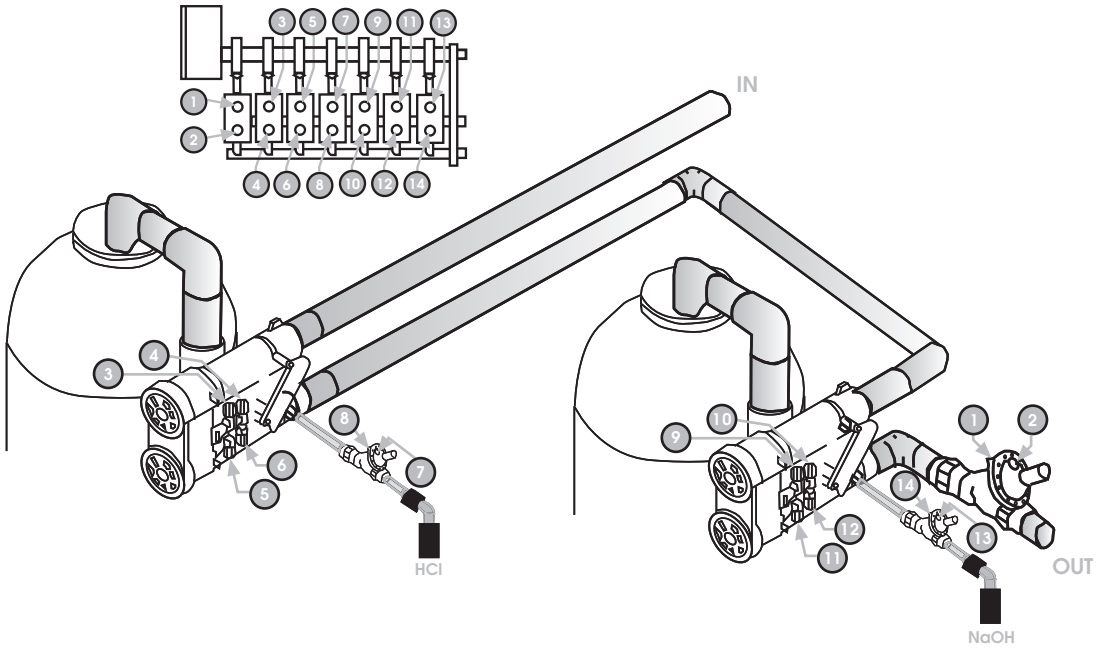
Alternate duplex softener system with timer 7 pilots. Usable valve: V250A/06. By-pass hard water during the service if increase the request at use with instabil valve, no by-pass hard water during the regeneration with idropneumatic valve. Brine control by idropneumatic valve.



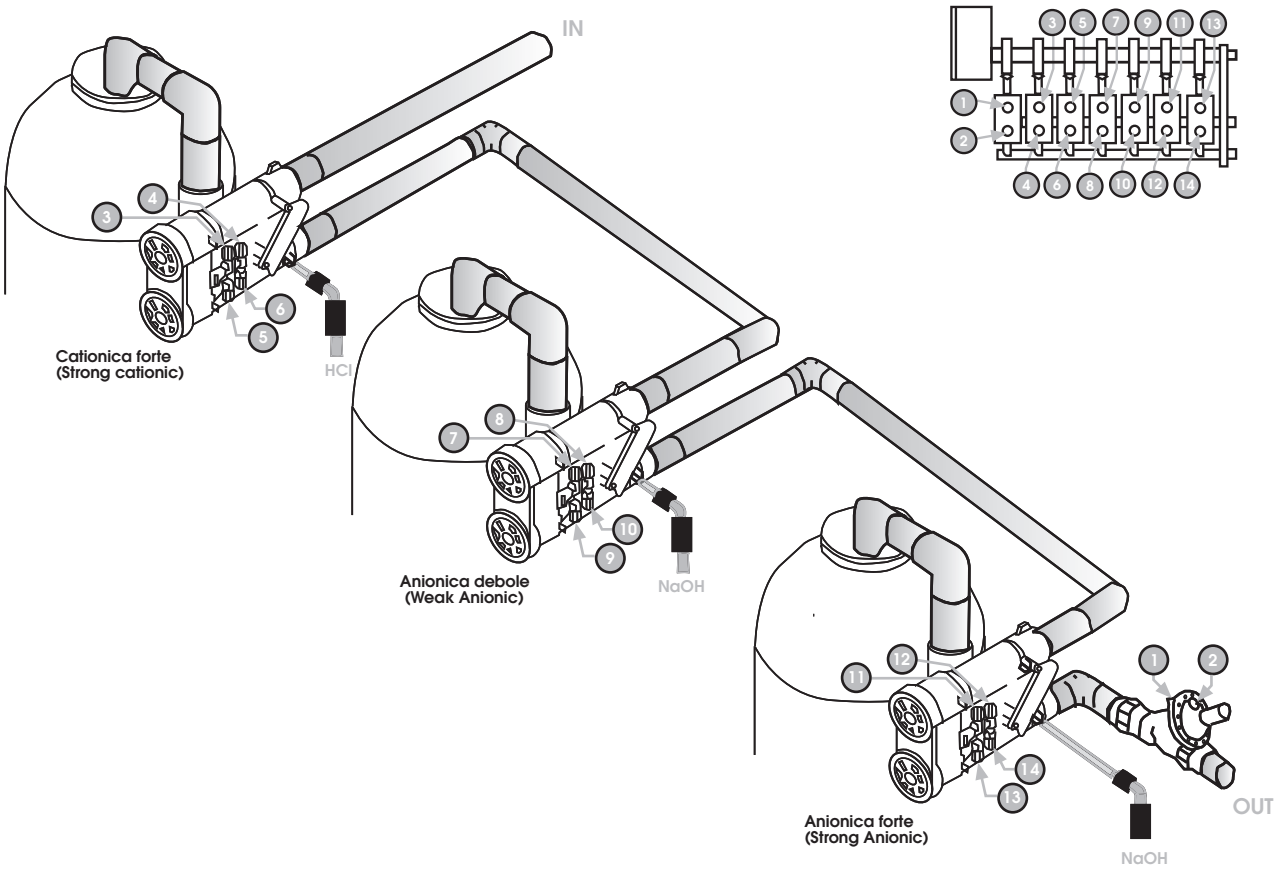




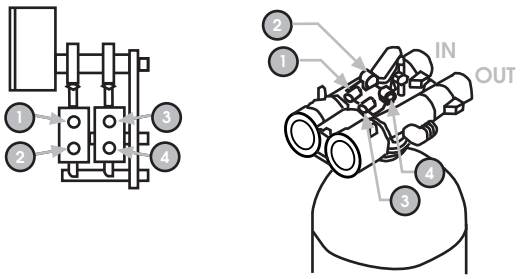
8 **Demineralizzatore con timer 7 piloti. Valvole utilizzabili: V240D-04/05, V240D-05/05. NO By-pass Acqua grezza durante la rigenerazione tramite valvola idropneumatica. Aspirazione rigeneranti tramite valvole idropneumatiche.**
Demineralization system with timer 7 pilots. Usable valves: V240D-04/05, V240D-05/05. NO By-pass raw water during the regeneration with idropneumatic valve. Rigenerant suction by idropneumaic valves.



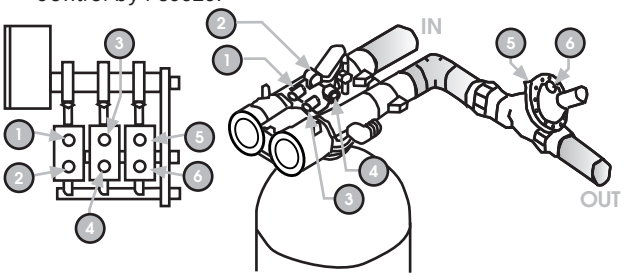
9 **Demineralizzatore 3 colonne con timer 7 piloti. Valvole utilizzabili: V240D-04/05, V240D-05/05. NO By-pass Acqua grezza durante la rigenerazione tramite valvola idropneumatica. Aspirazione rigeneranti tramite valvole idropneumatiche.**
Demineralization system 3 step with timer 7 pilots. Usable valves: V240D-04/05, V240D-05/05. NO By-pass raw water during the regeneration with idropneumatic valve. Rigenerant suction by idropneumaic valves.



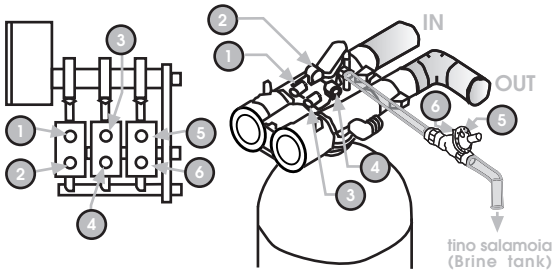
10 **Addolcitore o filtro singolo con timer 2 piloti. Valvole utilizzabili: V132E, V132E-T. By-pass Acqua dura durante la rigenerazione nella 1^, 2^ e 3^ fase. Controllo salamoia tramite valvola PS0620.**
Single softening or filtration system with timer 2 pilots. Usable valves: V132E, V132E-T. By-pass hard water during the regeneration in 1st, 2nd and 3rd cicle. Brine control by PS0620.



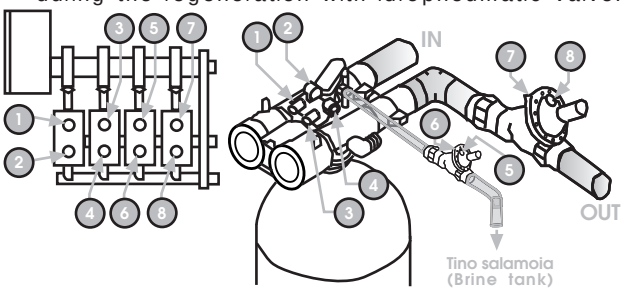
11 **Addolcitore o filtro singolo con timer 3 piloti. Valvole utilizzabili: V132E, V132E-T. NO By-pass Acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola PS0620.**
Single softening or filtration system with timer 3 pilots. Usable valves: V132E, V132E-T. NO By-pass hard water during the regeneration with idropneumatic valve. Brine control by PS0620.



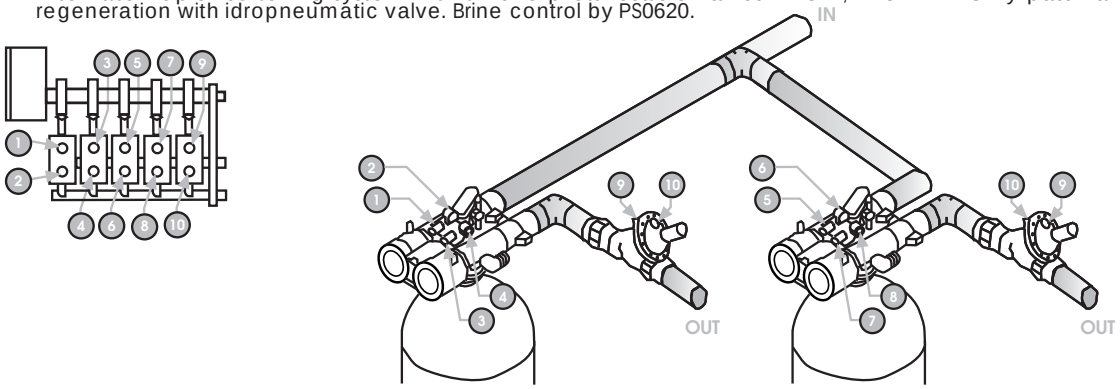
12 **Addolcitore singolo con timer 3 piloti con controllo aspirazione. Valvole utilizzabili: V132E, V132E-T. By-pass Acqua dura durante la rigenerazione nella 1^, 2^ e 3^ fase.**
Single softening system with timer 3 pilots with apiration control. Usable valves: V132E, V132E-T. By-pass hard water during the regeneration in 1st, 2nd and 3rd cicle.



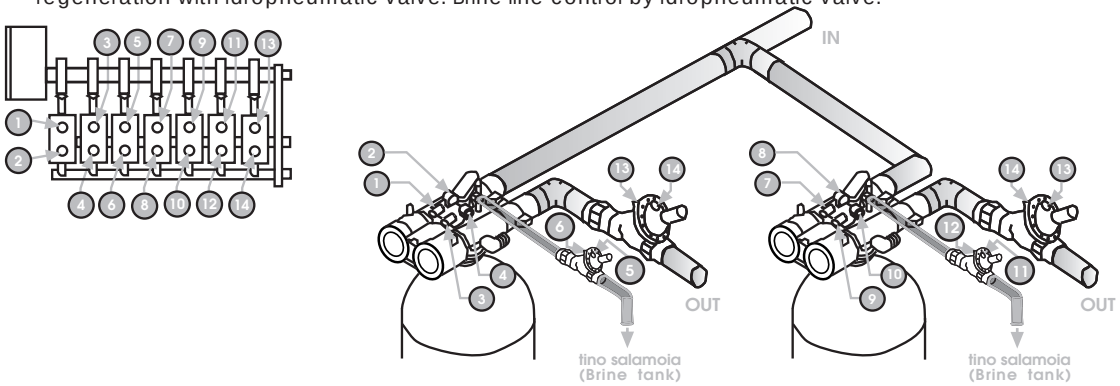
13 **Addolcitore singolo con timer 4 piloti con controllo aspirazione e chiusura utilizzo. Valvole utilizzabili: V132E, V132E-T. NO By-pass Acqua dura durante la rigenerazione tramite valvola idropneumatica.**
Single softening system with timer 4 pilots with apiration control and use cloruse.
Usable valves: V132E, V132E-T. NO By-pass hard water during the regeneration with idropneumatic valve.



14 **Addolcitore duplex alternato con timer 5 piloti. Valvole utilizzabili: V132E, V132E-T. NO By-pass Acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo salamoia tramite valvola PS0620.**
Alternate Duplex softening system with timer 5 pilots. Usable valves: V132E, V132E-T. NO By-pass hard water during the regeneration with idropneumatic valve. Brine control by PS0620.

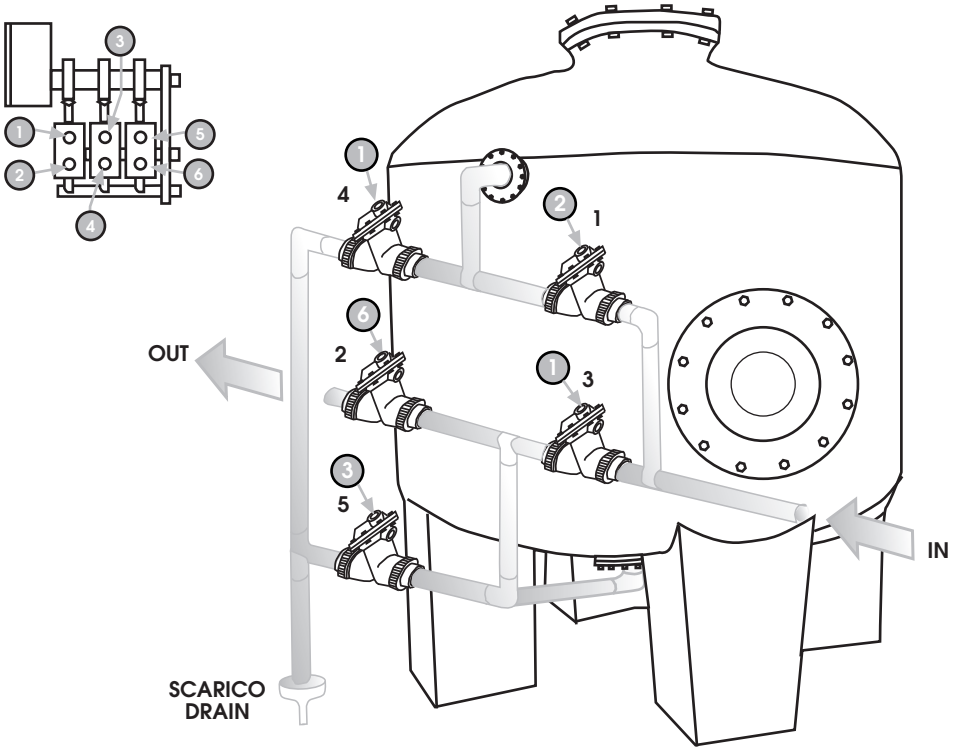


15 **Addolcitore duplex alternato con timer 7 piloti. Valvole utilizzabili: V132E, V132E-T. NO By-pass Acqua dura durante la rigenerazione tramite valvola idropneumatica. Controllo aspirazione salamoia treamite valvola idropneumatica.**
Alternate Duplex softening system with timer 7 pilots. Usable valves: V132E, V132E-T. NO By-pass hard water during the regeneration with idropneumatic valve. Brine line control by idropneumatic valve.



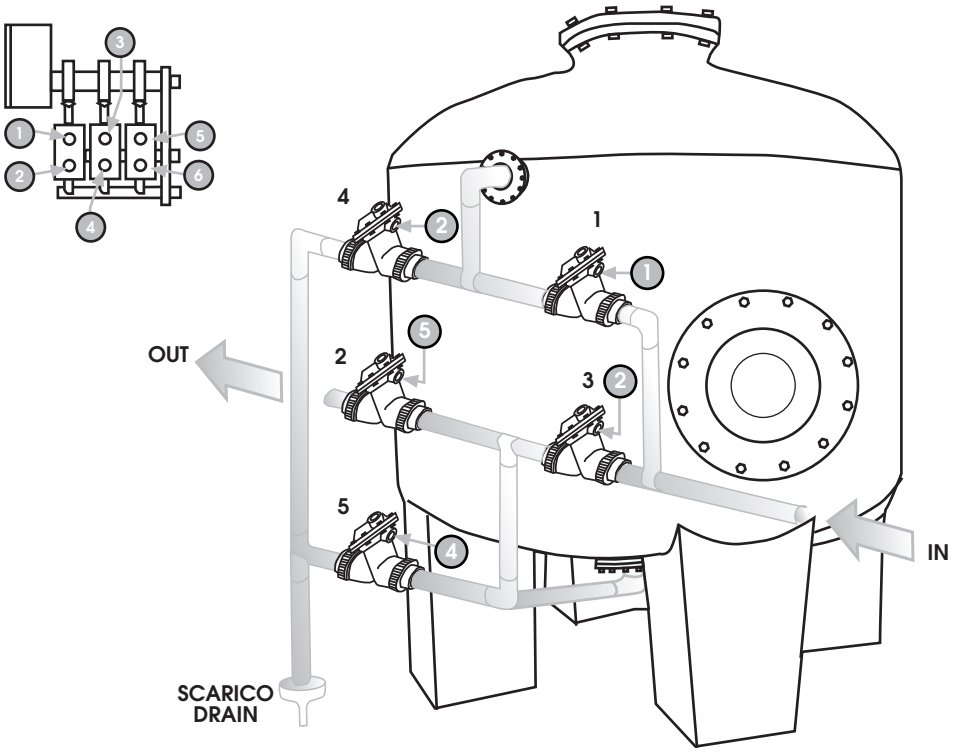
16 Filtro singolo (controlavaggio + risciacquo rapido) con 5 valvole idropneumatiche Normalmente Aperte e timer 3 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

Single filter (backwash + rapid rinse) with 5 Normaly Open idropneumatic valves and 3 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.

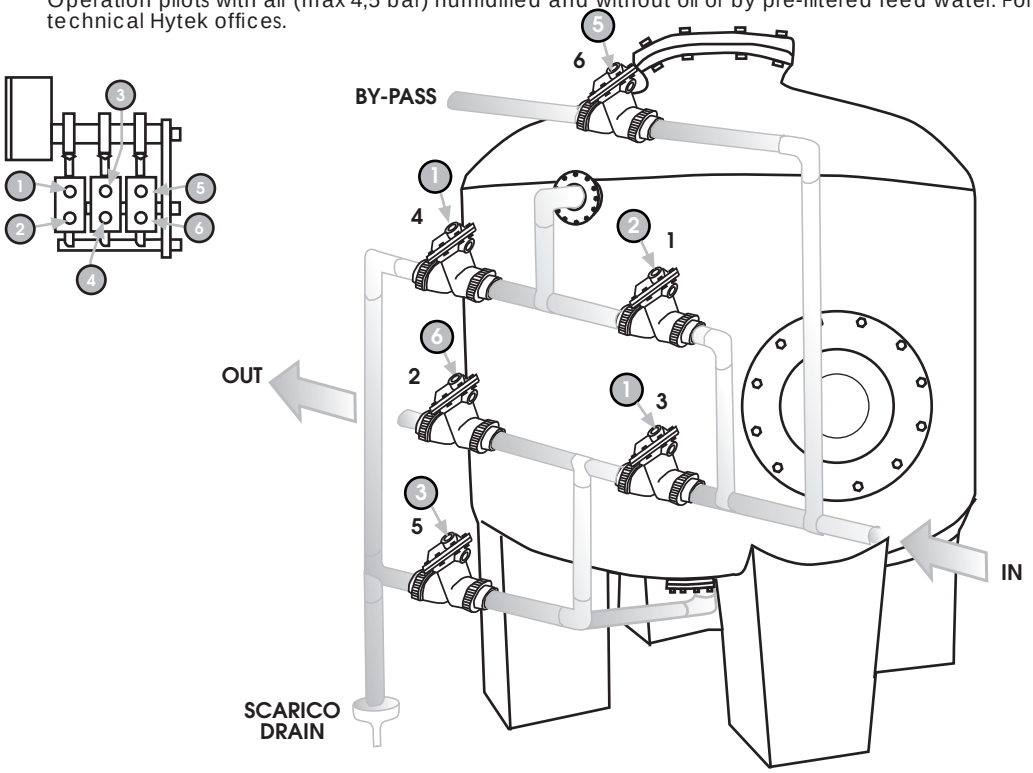


17 Filtro singolo (controlavaggio + risciacquo rapido) con 5 valvole idropneumatiche Normalmente Chiuse e timer 3 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

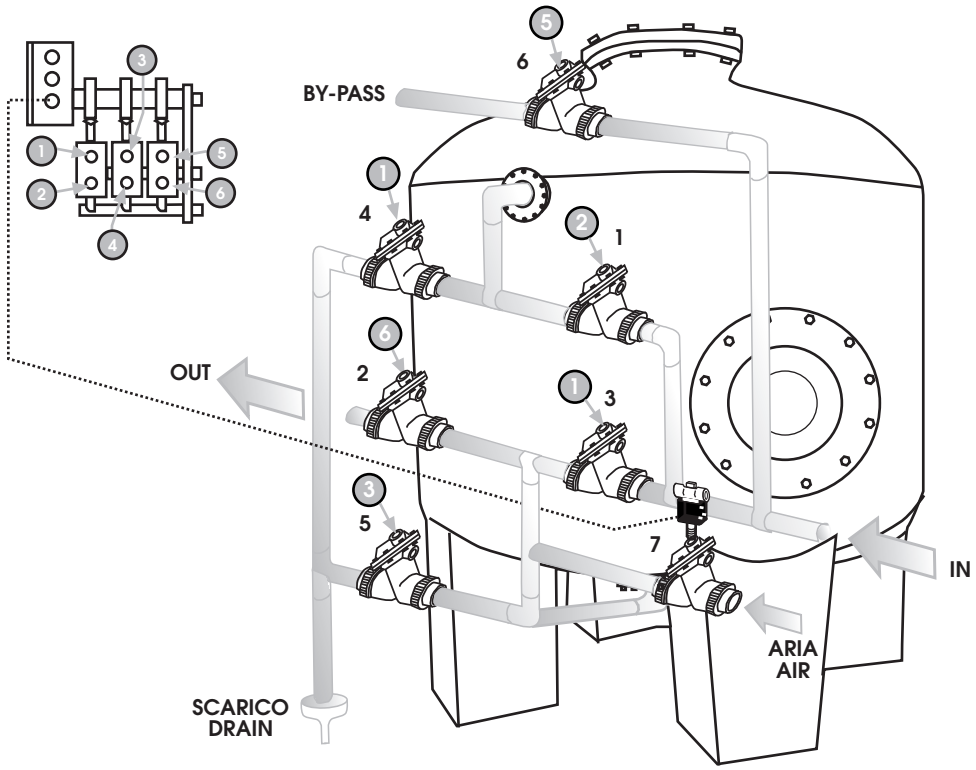
Single filter (backwash + rapid rinse) with 5 Normaly Closed idropneumatic valves and 3 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



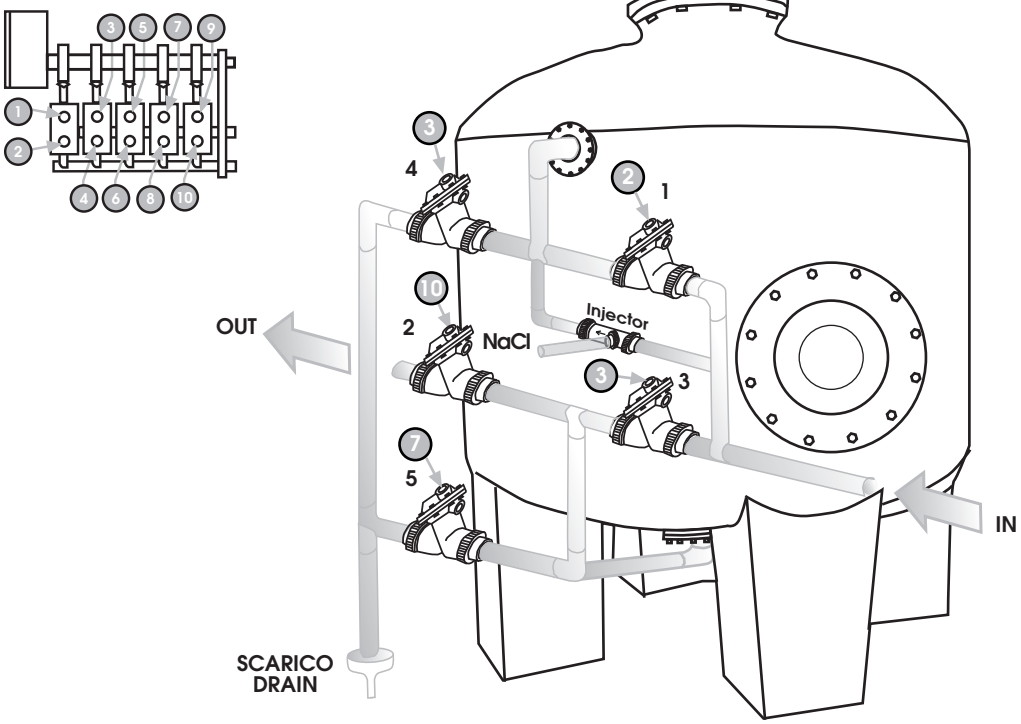
18 Filtro singolo (controlavaggio + risciacquo rapido + by-pass acqua grezza all' utilizzo) con 6 valvole idropneumatiche Normalmente Aperte e timer 3 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.
Single filter (backwash + rapid rinse + by-pass raw water at use) with 6 Normaly Open idropneumatic valves and 3 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



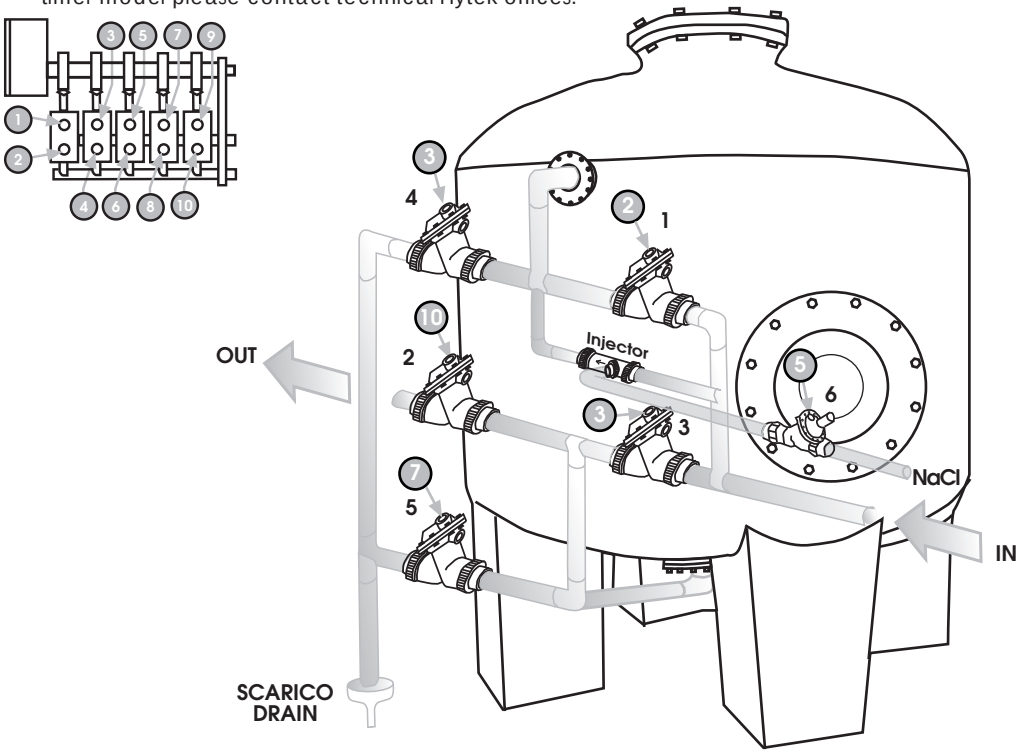
19 Filtro singolo (controlavaggio acqua e aria + risciacquo rapido + by-pass acqua grezza all' utilizzo) con 7 valvole idropneumatiche Normalmente Aperte e timer 3 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Azionamento aria tramite segnale elettrico da interfacciare con un relè temporizzato. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.
Single filter (backwash by water and air + rapid rinse + by-pass raw water at use) with 7 Normaly Open idropneumatic valves and 3 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Start backwash with air by electric signal to interface with temporized relè. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



20 **Addolcitore singolo con 5 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza della rigenerazione a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Aspirazione e riempimento tramite valvola salamoia. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.**
Single softener with 5 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Injection and brine refill by brine valve. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.

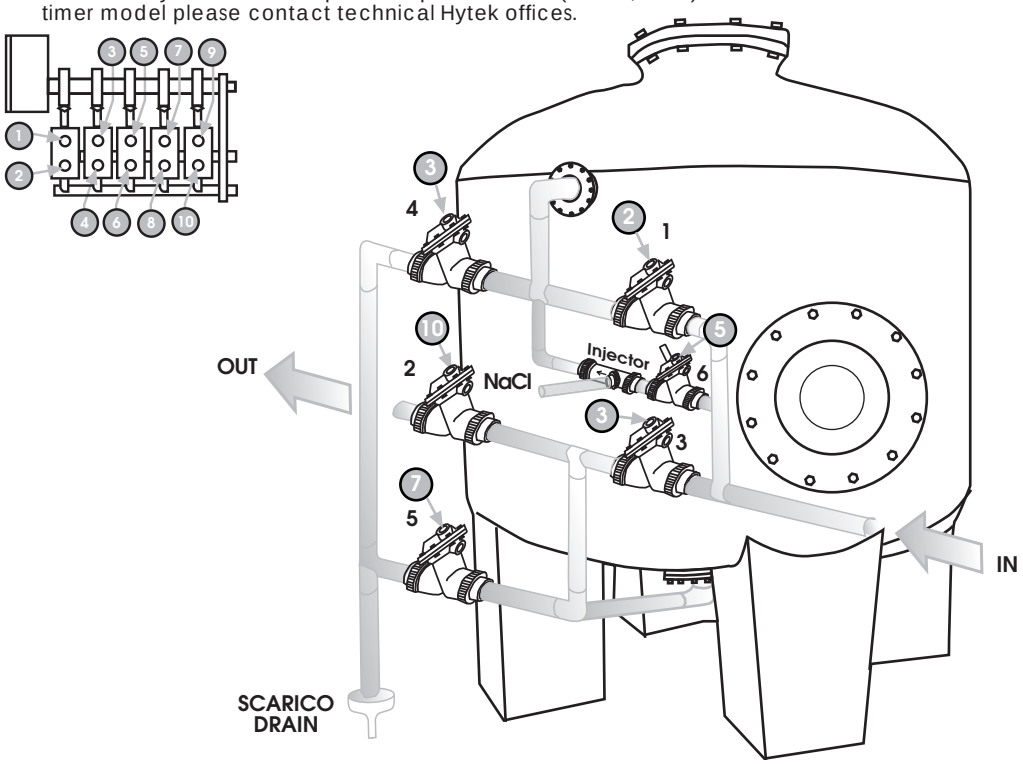


21 **Addolcitore singolo con 6 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza della rigenerazione a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Aspirazione e lavaggio lento tramite valvola idropneumatica. Riempimento tino salamoia tramite galleggiante esterno. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.**
Single softener with 6 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Injection and slow rinse by idropneumatic valve. Brine refill by external float. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



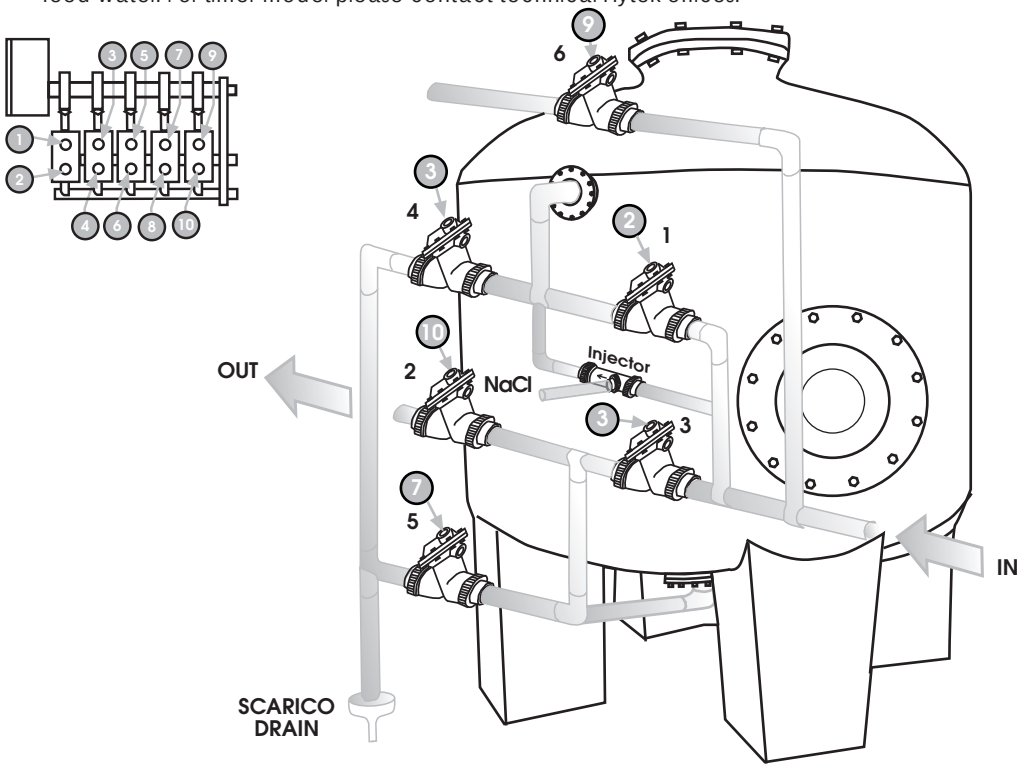
22 Addolcitore singolo con 6 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza della rigenerazione a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Aspirazione e lavaggio lento tramite valvola idropneumatica. Riempimento tramite valvola salamoia. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

Single softener with 6 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Injection and slow rinse by idropneumatic valve. Brine refill by brine valve. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



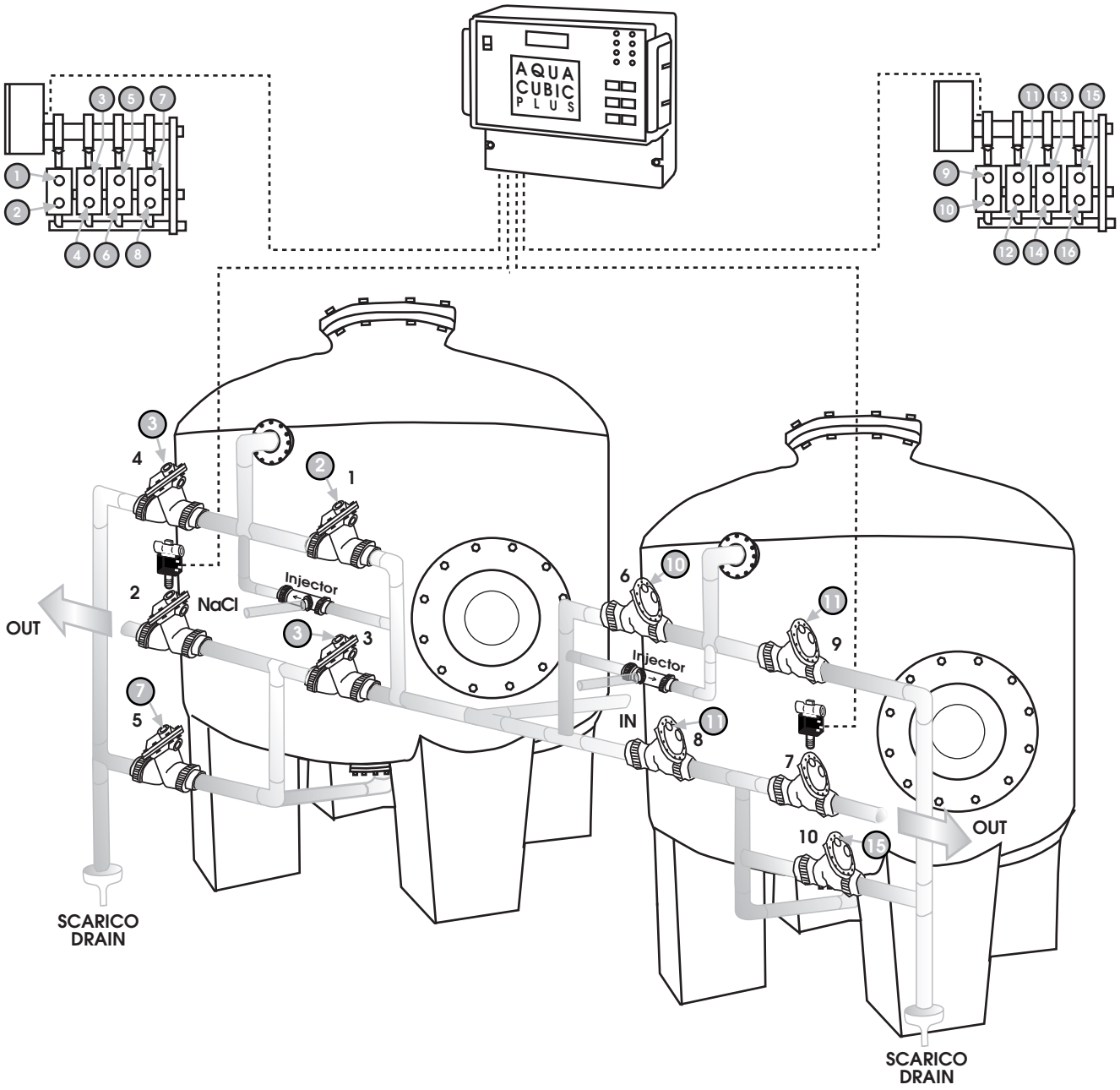
23 Addolcitore singolo con 6 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza della rigenerazione a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Aspirazione e riempimento tramite valvola salamoia. By pass acqua dura in servizio durante la rigenerazione. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

Single softener with 6 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Injection and brine refill by brine valve. By-pass hard water at use during the regeneration. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.



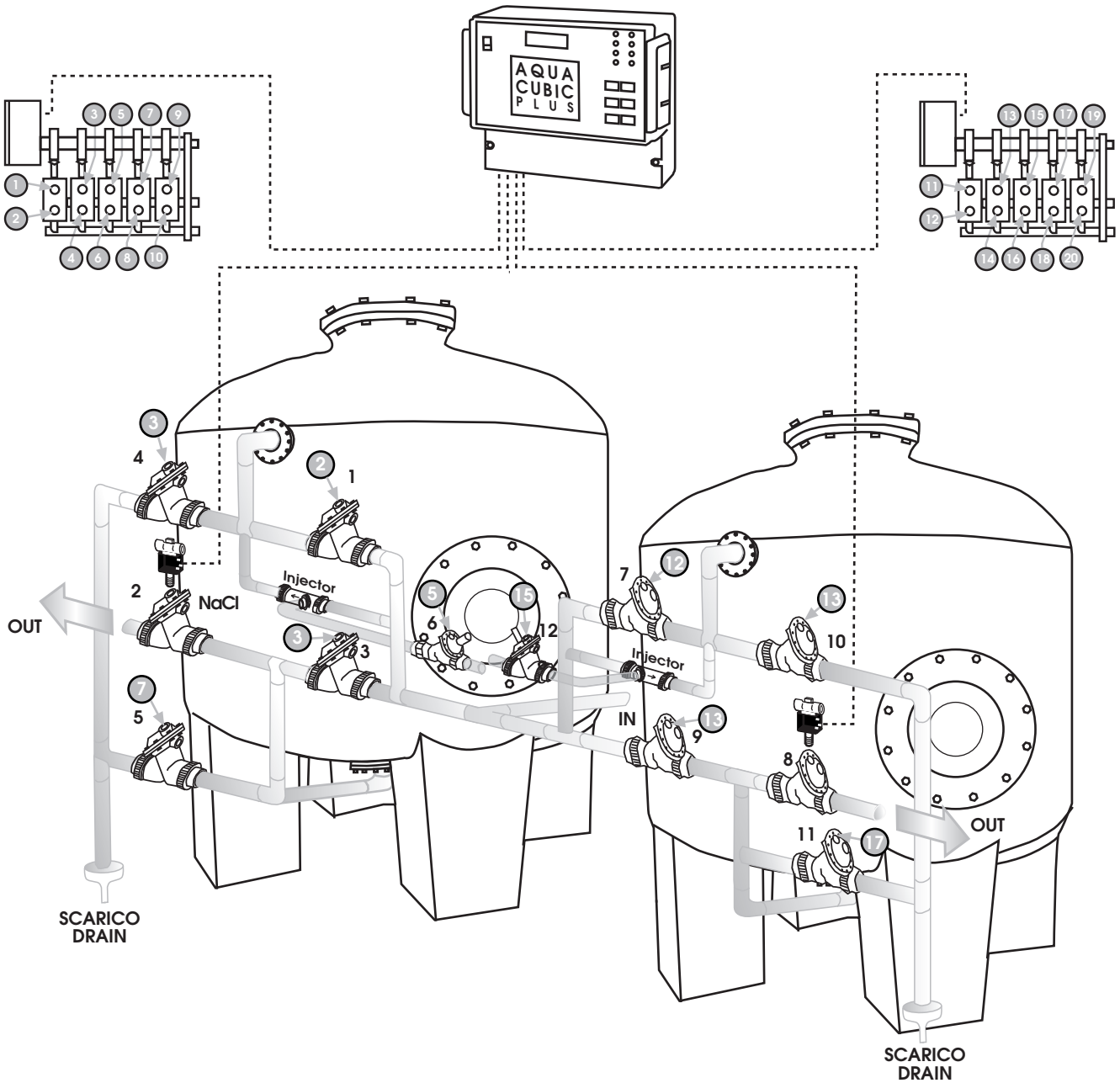
24 Addolcitore duplex alternato con 10 valvole idropneumatiche Normalmente Aperte e timer Aqua Cubic Plus con distributori idraulici. Partenza della rigenerazione a volume (con contatore opzionale) o tramite segnale esterno (starter remoto). Aspirazione e riempimento tramite valvola salamoia. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per i distributori idraulici adatti, prego contattare gli uffici tecnici Hytek.

Alternate duplex softener with 10 Normaly Open idropneumatic valves and Aqua Cubic timer with hydraulic distributors. Start rigeneration in volumetric mode (with optional flow meter) or by remote starter. Injection and brine refill by brine valve. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For the choice of hydraulic distributors please contact technical Hytek offices.



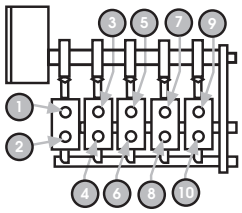
25 Addolcitore duplex alternato con 12 valvole idropneumatiche Normalmente Aperte e timer Aqua Cubic Plus con distributori idraulici. Partenza della rigenerazione a volume (con contatore opzionale) o tramite segnale esterno (starter remoto). Aspirazione e lavaggio lento tramite valvola idropneumatica. Riempimento tino salamoia tramite galleggiante esterno. Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per i distributori idraulici adatti, prego contattare gli uffici tecnici Hytek.

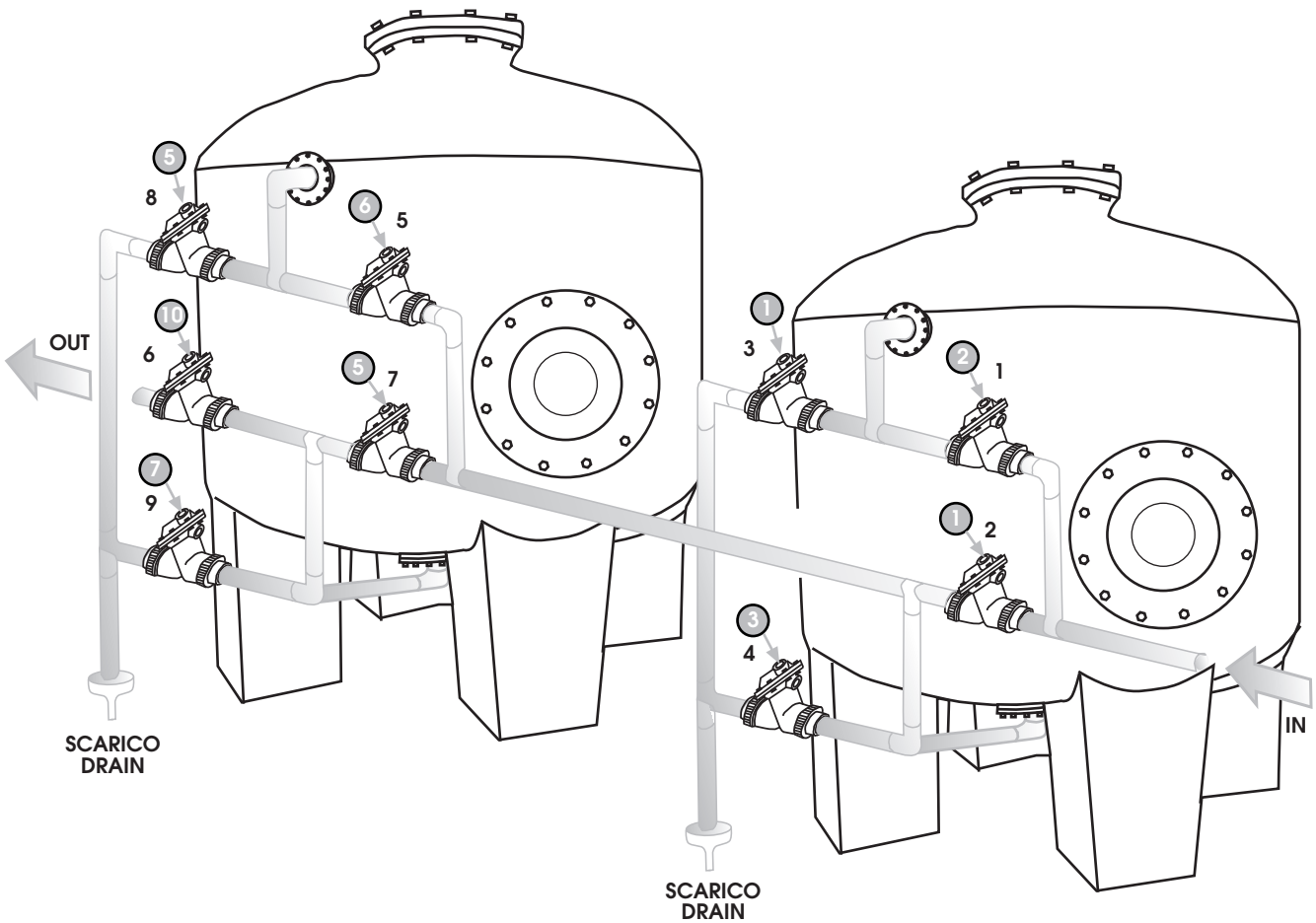
Alternate duplex softener with 12 Normaly Open idropneumatic valves and Aqua Cubic timer with hydraulic distributors. Start rigeneration in volumetric mode (with optional flow meter) or by remote starter. Injection and slow rinse by idropneumatic valve. Brine refill by external float. Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For the choice of hydraulic distributors please contact technical Hytek offices.



26 Filtro duplex rigenerazione in serie (controlavaggio + risciacquo rapido bombola A, controlavaggio + risciacquo rapido bombola B) con 9 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Valvola idropneumatica per chiusura utilizzo (no acqua grezza all' utenza durante la rigenerazione). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

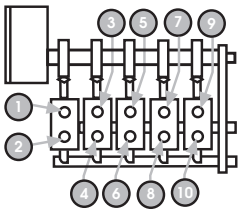
Series duplex filter (backwash + rapid rinse tank A, backwash + rapid rinse tank B) with 9 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Idropneumatic valve for closing use (no raw water at use during the regeneration). Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.

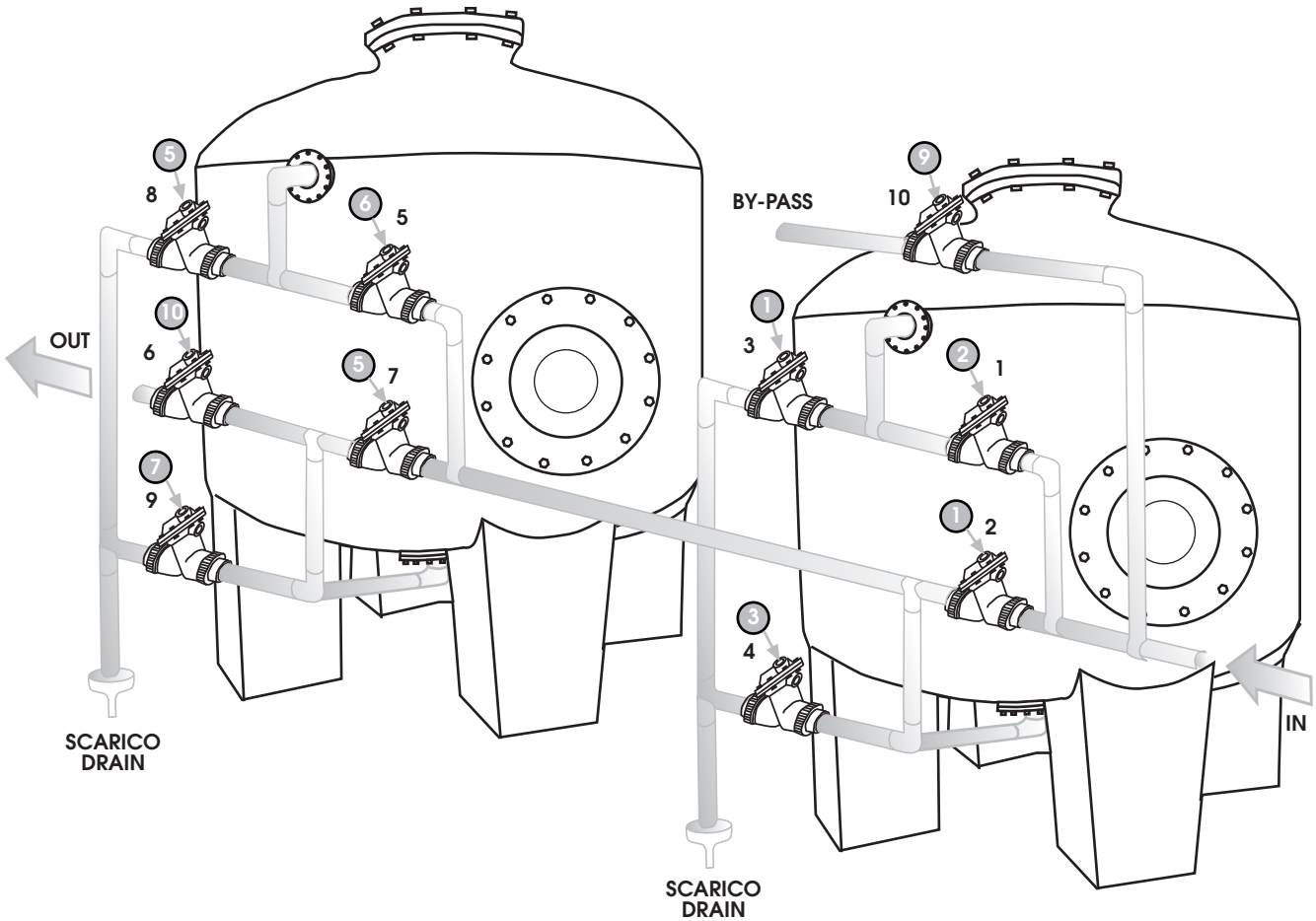




27 Filtro duplex rigenerazione in serie (controlavaggio + risciacquo rapido bombola A, controlavaggio + risciacquo rapido bombola B) con 10 valvole idropneumatiche Normalmente Aperte e timer 5 piloti. Partenza del controlavaggio a tempo, volume (con contatore opzionale), misto o tramite segnale esterno (starter remoto). Valvola idropneumatica per by-pass (acqua grezza all' utenza durante la rigenerazione). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per il modello di timer adatto, prego contattare gli uffici tecnici Hytek.

Series duplex filter (backwash + rapid rinse tank A, backwash + rapid rinse tank B) with 10 Normaly Open idropneumatic valves and 5 pilots timer. Start rigeneration in chrono mode, or volumetric mode (with optional flow meter), chrono and volume or by remote starter. Idropneumatic valve for by-pass (raw water at use during the regeneration). Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For timer model please contact technical Hytek offices.





28 Demineralizzatore rigenerazione in serie (Cationica forte + Anionica forte) con 11 valvole idropneumatiche Normalmente Aperte e Aqua Ionic Plus con distributori idraulici. Partenza della rigenerazione a volume (con contatore opzionale), tramite segnale esterno (starter remoto) o tramite sonda di conducibilità (sonda da ordinare a parte). Valvola idropneumatica di chiusura utilizzo (no acqua grezza all' utenza durante la rigenerazione). Funzionamento piloti tramite aria compressa (max 4,5 bar) umidificata e deoleata, oppure con acqua in ingresso (opportunamente pre-filtrata). Per i distributori idraulici adatti, prego contattare gli uffici tecnici Hytek.

Demineralization with series regeneration (Strong cationic + Strong anionic) with 11 Normaly Open idropneumatic valves and Aqua Ionic Plus with hydraulic distributors. Start rigeneration in volumetric mode (with optional flow meter), by external signal (starter remote) or by conductivity probe (probe to be ordered separately). Idropneumatic valve for closing use (no raw water at use during the regeneration). Operation pilots with air (max 4,5 bar) humidified and without oil or by pre-filtered feed water. For hydraulic distributors please contact technical Hytek offices.