CONBRACO/APOLLO 4A-600/ DCDA 4A/ DCDA 4AN **SERIES**

SIZE 2 1/2", 3", 4", 6", 8", 10", 12"

DESCRIPTION

The 4A-600 series is a double check detector assembly. Production began in 2008. The mainline assembly is a DC similar to the 4A-100 series. There are two different types of bypass assemblies, either type I or type II. The type I bypass utilizes an assembly similar to the 4A-100 series. The type II bypass utilizes a specially constructed single check assembly only. The letter "n" in the model designation refers to the n pattern assemblies with the up and down installation orientation.

BASIC REPAIR KIT

Mainline repair kit contains discs and O'rings

SIZE	<u>KIT NO</u>	<u>SIZE</u>	<u>KIT NO</u>
2 1/2"-3"	$4\overline{A}$ -000-17	8"	$4\overline{A}-00E-17$
4"	4A-00A-17	10"-12"	4A-00H-17
6"	4A-00C-17		

Type I bypass repair kit contains discs and O'rings Type II bypass repair kit contains check module and O'ring

SIZE	KIT NO
Type I	4A-003-RT
Type II - 4S	4A-003-12
Type II - 4A	4A-003-13A

IMPORTANT FEATURES

- ~ Mainline assembly similar to 4A-100
- ~ Bypass type one assembly similar to 4A-100
- ~ Bypass type two single check valve only





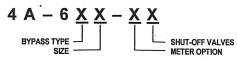
SPECIFICATIONS

The 2 ½" - 12" Double Check Detector Assembly shall be an Apollo® Model DCDA 4A or DCDA2 4A. The assembly shall be manufactured in America and carry a 5-year Apollo® factory warranty. The TriForce™ center-stem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by SS snap-in retainers (2 $\frac{1}{2}$ " - 6") or SS studs & nuts (8" - 12"). Access to the check valves shall be by an Apollo® quick-connect SS coupling (2 $\frac{1}{2}$ " - 6") or grooved couplings (8" - 12"). The bodies shall be SS in 2 ½" - 8" sizes and FDA epoxy-coated ductile iron in 10" & 12" sizes. The assembly consists of a mainline double check valve with a Type 2 bypass consisting of a single check and meter bypassing the mainline second check to prevent backflow while accurately measuring all flows up to 2 gpm while the mainline 2nd check remains closed. Assemblies with the optional Type 1 bypass consist of a double check valve and meter which bypass both mainline checks and accurately meter all flows up to 2 gpm with the mainline checks closed. The Apollo® domestic ball valve test cocks shall have SS handles. The pressure drop across the assembly shall be documented by ASSE or USC FCCC&HR Approval curves. The assembly shall prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards.

FEATURES

- Stainless steel body: 2 1/2" 8"
- FDA epoxy-coated ductile iron body: 10" & 12"
- Easy maintenance no special tools required
 - Snap-in check retainers: 2 1/2" 6"
 - Bolted-in checks: 8" 12"
- Low pressure loss as documented by ASSE or USC FCCC&HR Backflow Preventer approval agencies
- Center-stem guided TriForce[™] check valves
- Approved for horizontal and vertical flow up
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- MADE IN THE USA

ORDERING INFORMATION



BYPASS TYPE

- ☐ 0 Double check on bypass line (Type 1)
- ☐ 2 Single check on bypass line (Type 2 Standard)

☐ H-12"

SIZE

- □ 9-2½" □ C-6"
- □ 0-3" □ E-8" ☐ G-10"

METER OPTION

☐ E−gpm ☐ G - no meter

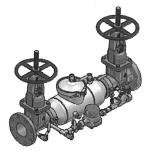
SHUT-OFF VALVES (Inlet x Outlet)

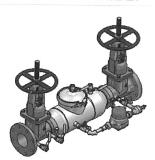
- ☐ 1 Less Shut-off Valves (see notes)
- ☐ 2-NRS Fig x NRS Fig
- ☐ 3 OS&Y Flg x OS&Y Flg
- ☐ 4 OS&Y Flg x Monitored (Mon.) Butterfly VIv Grv
- ☐ 6 OS&Y Flg x Post Indicator Flg (Not in 2 ½" size)
- ☐ 7-OS&Y Flg x OS&Y Grv
- ☐ 8 OS&Y Grv x OS&Y Grv
- 9 Mon. Butterfly VIv Grv x Mon. Butterfly VIv Grv
- ☐ 10 OS&Y Flg x Post Indicator Grv (Not in 2 ½" size)
- 11 NRS Grv x NRS Grv
- 12 NRS Flg x NRS Grv

2 ½ - 12"

Model DCDA 4A Model DCDA2 4A

DOUBLE CHECK DETECTOR ASSEMBLY





TYPE 1

TYPE 2 (Standard)

PERFORMANCE RATING

Maximum Working Pressure 175 psi Temperature Range 33 ° F – 140 ° F Hydrostatic Test Pressure 350 psi

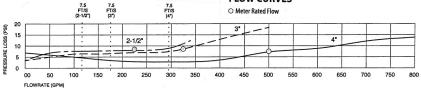
STANDARD MATERIALS LIST

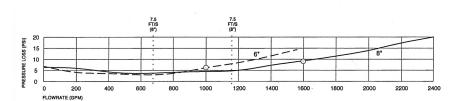
Part Name	Material
Body (2 ½" - 8")	304 Stainless Steel
Body (10" & 12")	FDA Epoxy Coated Ductile Iron
Covers (2 ½" – 6")	Glass-filled PPO/Stainless Steel
Cover (8")	304 Stainless Steel
Covers (10" & 12")	FDA Epoxy Coated Ductile Iron
Check Valves (2 ½" – 12")	Glass-filled PPO/Bronze (C89836 Lead-Free*)/SS
Bypass Valves	Bronze (C89836 Lead-Free*)
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone

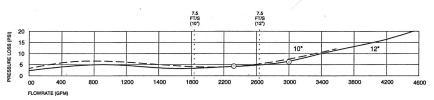
Model DCDALF 4A Model DCDA2LF 4A

Double Check Detector Assembly

FLOW CURVES





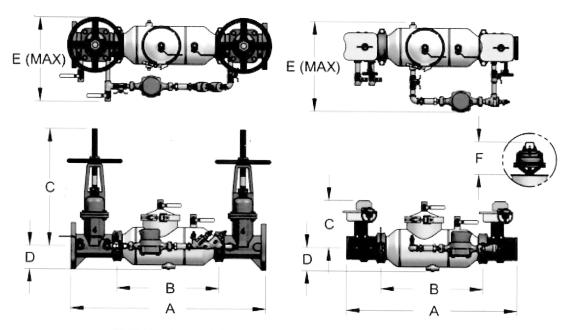


- Flow curves directly reflect data collected by an independent laboratory.
 Flow curves shown were recorded with butterfly shut-off valves. Flow curves with gate valves are slightly lower. Contact factory for more information.
 All data points are based on ASSE increasing flow data, from zero GPM to rated flow (opening curve).
- 4. For high flow rates/pressure loss information contact factory.

——'Apollo'valves———SUBMITTAL SHEET LEAD FREE

— Model DCDALF 4A — Model DCDA2LF 4A

Double Check Detector Assembly



TYPE 1 BYPASS

TYPE 2 BYPASS (STANDARD)

DIMENSIONS

Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (± 1/8" (3 mm) per joint)

iize	2 1/2"	65 mm	3"	80mm	4"	100mm	6"	150mm	8"	200mm	10"	250mm	12"	300MM
A (Butterfly Valves)	28	711	28.5	724	33.3	846	38.9	988	46.4	1179	52.3	1328	N/A	N/A
A (Gate Valves)	31	787	32	813	38	965	45.9	1166	53.4	1356	62.3	1582	65.5	1664
B (less Shut-off Valves)	15.9	404	15.9	404	19.6	498	24.5	622	30	762	36	914	37	940
C (Butterfly Valves)	8	203	8.4	213	9.1	231	10.1	257	12	305	13.4	340	N/A	N/A
C (NRS/PI Gate Valves)	11.8	300	13	330	14	356	17.8	452	21	533	24.5	622	30	762
C (OS&Y Open)	18.8	478	20.3	515	22.1	562	29.4	747	36.8	934	45.2	1147	52.2	1326
D (Centerline to Bottom)	3.9	99	3.9	99	4.6	117	6	152	8.1	206	11.8	300	12	305
E (Width Max)	17	432	17	432	17	432	20	508	21.5	546	26.5	673	26.5	673
F (Check Removal Clearance)	4.8	122	4.8	122	6.5	165	7.5	191	7.5	191	10	254	10	254
Test Cocks (NPT)	1/2"	13	1/2"	13	1/2"	13	3/4"	20	3/4"	20	3/4"	20	3/4"	20
WEIGHTS	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg
Net Wt. (W/ Butterfly Valves)	64	29	68	31	98	45	158	72	354	161	940	427	N/A	N/A
Ship Wt. (W/ Butterfly Valves)	88	40	92	42	183	83	248	113	502	228	1130	514	N/A	N/A
Net Wt. (W/ Post Ind. Valves)	94	43	109	50	149	68	273	124	540	245	1229	559	1685	766
Ship Wt. (W/ Post Ind. Valves)	178	81	193	88	234	106	361	164	688	313	1419	645	1875	852
Net Wt. (W/ OS&Y Valves)	109	50	125	57	180	82	333	151	615	280	1343	610	1800	818
Ship Wt. (W/ OS&Y Valves)	193	88	209	95	265	120	421	191	763	347	1533	697	1990	905

- 1. Internal body connections are grooved on 2-1/2" to 10" sizes.
- 2. Internal body connections are flanged on 12" size.



SPECIFICATIONS

The 2 1/2" - 12" Double Check Detector Assembly shall be an Apollo® Model DCDA 4AN or DCDA2 4AN. The assembly shall be manufactured in America and carry a 5-year Apollo factory warranty. The TriForce™ center-stem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by drop-in retainers (2 1/2" - 6") or SS studs & nuts (8" - 12"). Access to the check valves shall be by an Apollo $^{\circ}$ quick-connect SS coupling (2 $\frac{1}{2}$ " - 6") or grooved couplings (8" - 12"). The bodies shall be SS in 2 1/2" - 8" sizes and FDA epoxy-coated ductile iron in 10" & 12" sizes. The assembly is a mainline double check valve with a Type 2 bypass consisting of a single check and meter bypassing the mainline second check to prevent backflow while accurately measuring all flows up to 2 gpm with the mainline 2nd check remaining closed. Assemblies with the optional Type 1 bypass consist of a double check valve and meter which bypasses both mainline checks and accurately meters all flows up to 2 gpm with both mainline checks closed. The Apollo® domestic ball valve test cocks shall have SS handles. The assembly shall prevent contamination of the potable water supply due to backsiphonage or backpressure from substances that are nonhealth hazards. The pressure drop across the assembly shall be documented by ASSE or USC FCCC&HR Approval curves.

FEATURES

- Stainless steel body: 2 ½" 8"
- FDA epoxy-coated ductile iron body: 10" & 12"
- Easy maintenance no special tools required
 - Drop-in check retainers: 2 ½" − 6"
 - Bolted-in checks: 8" 12"
- Low pressure loss as documented by ASSE or USC FCCC&HR Backflow Preventer approval agencies
- Center-stem guided TriForce™ check valves
- · Small installation space required small footprint
- Approved for n-flow
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- MADE IN THE USA

ORDERING INFORMATION

4AN	_	6	X	<u>X</u>	_	$\underline{\mathbf{X}}$	X	
BYPAS	S TYF	E -	_				L	SHUT-OFF VALVES

BYPASS TYPE

- ☐ 0 Double check on bypass line (Type 1)
- ☐ 2 Single check on bypass line (Type 2 Standard)

□ 9 - 2½"

□ C-6" 0 - 3"

□ E-8"

☐ H - 12"

□ G-10"

METER OPTION

☐ E – gpm

SHUT-OFF VALVES (Inlet x Outlet)

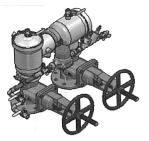
- ☐ 1 Less Shut-off Valves (see notes)
- ☐ 2-NRS Fig x NRS Fig
- □ 3 OS&Y Flg x OS&Y Flg
- ☐ 4 OS&Y Flg x Monitored (Mon.) Butterfly VIv Grv
- ☐ 6 OS&Y Flg x Post Indicator Flg (Not in 2 1/2" size)
- 7 OS&Y Flg x OS&Y Grv
- ☐ 8 OS&Y Grv x OS&Y Grv
- 9 Mon. Butterfly VIv Grv x Mon. Butterfly VIv Grv
- ☐ 10 OS&Y Flg x Post Indicator Gry (Not in 2 1/2" size)
- ☐ 11 NRS Grv x NRS Grv
- ☐ 12 NRS Flg x NRS Grv

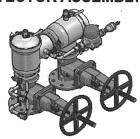
VALVE SETTER (Optional - See SS1174 for details)

- ☐ FS Flange x Flange Setter
 ☐ MJFS Mech. Joint x Flange Setter
- ☐ MJS Mech. Joint x Mech. Joint Setter

2 ½ - 12" Model DCDA 4AN Model DCDA2 4AN

DOUBLE CHECK DETECTOR ASSEMBLY





TYPE 1

TYPE 2 (Standard)

PERFORMANCE RATING

Maximum Working Pressure 175 psi Temperature Range 33 ° F - 140 ° F Hydrostatic Test Pressure 350 psi

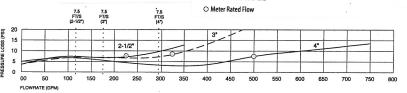
STANDARD MATERIALS LIST

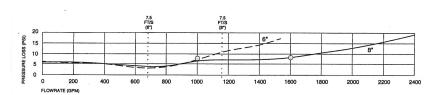
Part Name	Material
Mainline Body (2 ½" – 8")	Domestic Stainless Steel
Mainline Body (10" & 12")	FDA Epoxy Coated Ductile Iron
Bypass DC	Bronze (C89836 Lead Free*)
Covers (2 ½" – 6")	Glass-filled PPO/Stainless steel
Cover (8")	Domestic Stainless Steel
Covers (10" & 12")	FDA Epoxy Coated Ductile Iron
Check Valves	Glass-filled PPO/Bronze
(21/2" – 12")	(C89836 Lead Free*)/SS
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone

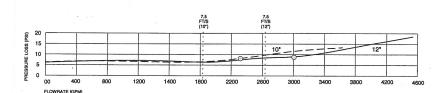
-Model DCDALF4 AN— Model DCDA2LF4 AN

Double Check Detector Assembly

FLOW CURVES







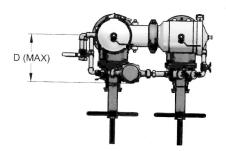
- Flow curves directly reflect data collected by an independent laboratory.
 Flow curves shown were recorded with butterfly shut-off valves. Flow curves with gate valves are slightly lower. Contact factory for more information.
 All data points are based on ASSE increasing flow data, from zero GPM to rated flow (opening curve).
- 4. For high flow rates/pressure loss information contact factory.

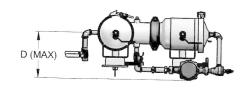
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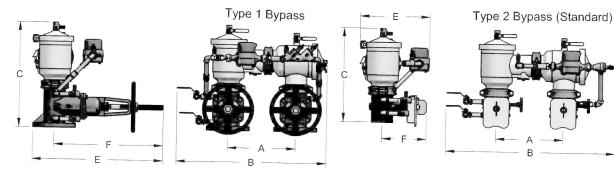
—Model DCDALF4 AN— Model DCDA2LF4 AN

Double Check **Detector Assembly**

2 1/2 - 12"









DIMENSIONS	Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (± 1/8" (3 mm) per joint)
DIMENSIONS	2-1/2" 65mm 2" 80mm 4" 100mm (" 370mm 0" 370mm 1" 370mm 1

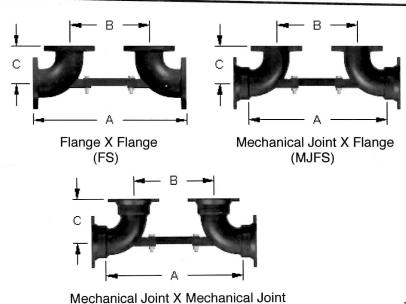
2-1/2"	65mm	3"	80mm	4"	100mm	6"	150mm	8"	200mm	10"	CONTRACTOR STATE	12"	300mm
12-1/2 ±	318 ±	12-1/2 ±	318 ±	14 ±	356 ±	16 ±	406 ±	18-1/2 ±	470 ±				679 =
32-3/4 ±	832 ±	32-3/4±	832 ±	35-1/4±	895 ±	40 ±	1016 ±	44 ±			-		N/A
31 ±	787 ±	31 ±	787 ±	31-3/4 =	806 ±	36-1/4=	921 ± .	41-1/2 =					1416 ±
18-1/4	464	18-1/2	470	20	508	24-3/4	629						N/A
19-5/8	498	20	508	22-1/2	572	27-3/4	705					· Deple	1118
10	254	10	254	10-1/8	257	11-1/4	286						387
11-1/2	292	12-1/8	308	12-7/8	327	15-7/8	403			-	the same of the same of	THE RESERVOIR CO.	N/A
21-7/8	556	23-7/8	606	25-5/8	652	35-1/2	902						1594
15-5/8	398	16-7/8	429	18-5/8	474	23-3/4	603						1016
18	457	20	508	21	533	29-1/2	749	37			and the same of the same of the	-	1349
8	203	8-3/8	213	9	229	10-7/8	276	12-7/8					N/A
11-3/4	298	13	330	14	356	17-3/4							762
6	152	6	152	6	152	8							305
1/2"	13	1/2"	13	1/2"	13	3/4"	20		-			-	20
lb.	kg	lb.	kg	lb.	kg	lb.	ka						kg
45	20	45	20	54	25	89	40						422
72	33	75	34	99	45	157	71						N/A
141	64	166	75	209	95	338	153						962
	12-1/2 = 32-3/4 = 31 = 18-1/4 19-5/8 10 11-1/2 21-7/8 18 8 11-3/4 6 1/2" 1b. 45 72	12-1/2 * 318 * 32-3/4 * 832 * 31 * 787 * 18-1/4 464 19-5/8 498 10 254 11-1/2 292 21-7/8 556 15-5/8 398 18 457 8 203 11-3/4 298 6 152 1/2" 13 lb. kg 45 20 72 33	12-1/2	12-1/2 ± 318 ± 12-1/2 ± 318 ± 32-3/4 ± 832 ± 32-3/4 ± 832 ± 31 ± 787 ± 31 ± 787 ± 18-1/4 464 18-1/2 470 19-5/8 498 20 508 10 254 10 254 11-1/2 292 12-1/8 308 21-7/8 556 23-7/8 606 15-5/8 398 16-7/8 429 18 457 20 508 8 203 8-3/8 213 11-3/4 298 13 330 6 152 6 152 1/2" 13 1/2" 13 1b. kg lb. kg 45 20 45 20 72 33 75 34	12-1/2 ± 318 ± 12-1/2 ± 318 ± 14 ± 32-3/4 ± 832 ± 32-3/4 ± 832 ± 35-1/4 ± 31 ± 787 ± 31 ± 787 ± 31-3/4 ± 18-1/4 464 18-1/2 470 20 19-5/8 498 20 508 22-1/2 10 254 10 254 10-1/8 11-1/2 292 12-1/8 308 12-7/8 21-7/8 556 23-7/8 606 25-5/8 15-5/8 398 16-7/8 429 18-5/8 18 457 20 508 21 8 203 8-3/8 213 9 11-3/4 298 13 330 14 6 152 6 152 6 1/2" 13 1/2" 13 1/2" lb. kg lb. kg lb. 72 33 75 34 99	12-1/2 ± 318 ± 12-1/2 ± 318 ± 14 ± 356 ± 32-3/4 ± 832 ± 32-3/4 ± 832 ± 35-1/4 ± 895 ± 31 ± 787 ± 31 ± 787 ± 31-3/4 ± 806 ± 18-1/4 464 18-1/2 470 20 508 19-5/8 498 20 508 22-1/2 572 10 254 10 254 10-1/8 257 11-1/2 292 12-1/8 308 12-7/8 327 21-7/8 556 23-7/8 606 25-5/8 652 15-5/8 398 16-7/8 429 18-5/8 474 18 457 20 508 21 533 8 203 8-3/8 213 9 229 11-3/4 298 13 330 14 356 6 152 6 152 6 152 1/2" 13 1/2"	12-1/2 ± 318 ± 12-1/2 ± 318 ± 14 ± 356 ± 16 ± 32-3/4 ± 832 ± 32-3/4 ± 832 ± 35-1/4 ± 895 ± 40 ± 31 ± 787 ± 31 ± 787 ± 31-3/4 ± 806 ± 36-1/4 ± 18-1/4 464 18-1/2 470 20 508 24-3/4 19-5/8 498 20 508 22-1/2 572 27-3/4 10 254 10 254 10-1/8 257 11-1/4 11-1/2 292 12-1/8 308 12-7/8 327 15-7/8 21-7/8 556 23-7/8 606 25-5/8 652 35-1/2 15-5/8 398 16-7/8 429 18-5/8 474 23-3/4 18 457 20 508 21 533 29-1/2 8 203 8-3/8 213 9 229 10-7/8 11-3/4 298 13 330	12-1/2 318 12-1/2 318 14 356 16 406 406 32-3/4 832 32-3/4 832 35-1/4 895 40 1016 31 787 31 787 31-3/4 806 36-1/4 921 18-1/4 464 18-1/2 470 20 508 24-3/4 629 19-5/8 498 20 508 22-1/2 572 27-3/4 705 10 254 10 254 10-1/8 257 11-1/4 286 11-1/2 292 12-1/8 308 12-7/8 327 15-7/8 403 21-7/8 556 23-7/8 606 25-5/8 652 35-1/2 902 15-5/8 398 16-7/8 429 18-5/8 474 23-3/4 603 18 457 20 508 21 533 29-1/2 749 8 203 8-3/8 213 9 229 10-7/8 276 11-3/4 298 13 330 14 356 17-3/4 451 6 152 6 152 6 152 8 203 1/2" 13 1/2" 13 3/4" 20 18. kg lb. kg lb. kg 45 20 45 20 54 25 89 40 72 33 75 34 99 45 157 71	12-1/2 ± 318 ± 12-1/2 ± 318 ± 14 ± 356 ± 16 ± 406 ± 18-1/2 ± 32-3/4 ± 832 ± 32-3/4 ± 832 ± 35-1/4 ± 895 ± 40 ± 1016 ± 44 ± 31 ± 787 ± 31 ± 787 ± 31-3/4 ± 806 ± 36-1/4 ± 921 ± 41-1/2 ± 18-1/4 464 18-1/2 470 20 508 24-3/4 629 28-1/2 19-5/8 498 20 508 22-1/2 572 27-3/4 705 32-1/8 10 254 10 254 10-1/8 257 11-1/4 286 12-1/2 11-1/2 292 12-1/8 308 12-7/8 327 15-7/8 403 22-1/2 21-7/8 556 23-7/8 606 25-5/8 652 35-1/2 902 45-1/8 15-5/8 398 16-7/8 429 18-5/8 474 23-3/4 603 29-1/8 18 457 20 508 21 533 29-1/2 749 37 8 203 8-3/8 213 9 229 10-7/8 276 12-7/8 11-3/4 298 13 330 14 356 17-3/4 451	12-1/2 = 318 ± 12-1/2 = 318 ± 14 ± 356 ± 16 ± 406 ± 18-1/2 ± 470 ± 32-3/4 ± 832 ± 35-1/4 ± 895 ± 40 ± 1016 ± 44 ± 1118 ± 31 ± 787 ± 31 ± 787 ± 31-3/4 ± 806 ± 36-1/4 ± 921 ± 41-1/2 ± 1054 ± 18-1/4 464 18-1/2 470 20 508 24-3/4 629 28-1/2 72 724 19-5/8 498 20 508 22-1/2 572 27-3/4 705 32-1/8 816 816 10 254 10 254 10-1/8 257 11-1/4 286 12-1/2 318 11-1/2 292 12-1/8 308 12-7/8 308 12-7/8 327 15-7/8 403 22-1/4 565 21-7/8 556 23-7/8 606 25-5/8 652 35-1/2 902 45-1/8 1146 15-5/8 398 16-7/8 429 18-5/8 474 23-3/4 603 29-1/8 739 18 457 20 508 21 533 29-1/2 749 37 940 8 203 8-3/8 213 9 229 10-7/8 276 12-7/8 327 11-3/4 298 13 330 14 356 17-3/4 451 21 573 6 152 6 152 6 152 8 203 8-1/2 206 1/2" 13 1/2" 13 1/2" 13 3/4" 20 3/4" 20 1b. kg lb. kg lb. kg lb. kg lb. kg lb. kg 45 20 45 20 54 25 89 40 320 145 47 23 33 75 34 99 45 157 71 451 205	12-1/2 318 12-1/2 318 14 356 16 406 18-1/2 470 21	2-1/2" 65mm 3" 80mm 4" 100mm 6" 150mm 8" 200mm 10" 250mm 12-1/2" 318 the standard of th	2-1/2" 65mm 3" 80mm 4" 100mm 6" 150mm 8" 200mm 10" 250mm 12" 12-1/2" 318 * 12-1/2 * 318 * 14 * 356 * 16 * 406 * 18-1/2 * 470 * 21 * 533 * 26-3/4 * 32-3/4 * 832 * 32-3/4 * 895 * 40 * 1016 * 44 * 1118 * 54 * 1372 * N/A 31 * 787 * 31 * 787 * 31-3/4 * 806 * 36-1/4 * 921 * 41-1/2 * 1054 * 49 * 1245 * 55-3/4 * 18-1/4 * 464 * 18-1/2 * 470 * 20 * 508 * 24-3/4 * 629 * 28-1/2 * 724 * 37 * 940 * N/A 19 -5/8 * 498 * 20 * 508 * 22-1/2 * 705 * 32-1/8 * 816 * 40 * 1016 * 44 * 10 * 254 * 10 * 257 * 11-1/4 * 286 * 12-1/2 * 318 * <

Notes:

- 1. Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.
- 2. Internal body connections are grooved on 2 ½" 10" sizes.
- 3. Internal body connections are flanged on 12" size.

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(MJS)

Valve Setters Models FS, MJFS, and MJS

DIMENSIONS (in) - WEIGHTS (lbs)										
Size	Model	Α	В	С	Wt.					
2 1/2"	FS	23 1/2	12 1/2	5 1/2	43.7					
	FS	23 1/2	12 1/2	5 1/2	50.4					
3"	MJFS	21 1/2	12 1/2	5 1/2	50.4					
	MJS	21 1/2	12 1/2	7	50.7					
	FS	27	14	6 1/2	87.1					
4"	MJFS 24		14	6 1/2	71.1					
	MJS	24	14	7 1/2	65.1					
	FS	32	16	8	147.5					
6"	MJFS	29	16	8	115.3					
	MJS	29	16	9	107.1					
	FS	36 1/2	18 1/2	9	236.3					
8"	MJFS	33 1/2	18 1/2	9	216.4					
	MJS	33 1/2	18 1/2	10	193.2					
10"	FS	43	21	11	387.9					
12"	FS steel	50 ¾	26 3/4	12	546.1					

Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.

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