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BURKECALIBRATION.COM

Canalta Orifice Fitting Parts & Accessories Catalogue

Questions? Call us at 780-897-5869 or email info@burkecalibration.com

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PARTS FOR 2" - 6" SINGLE CHAMBER ORIFICE FITTINGS

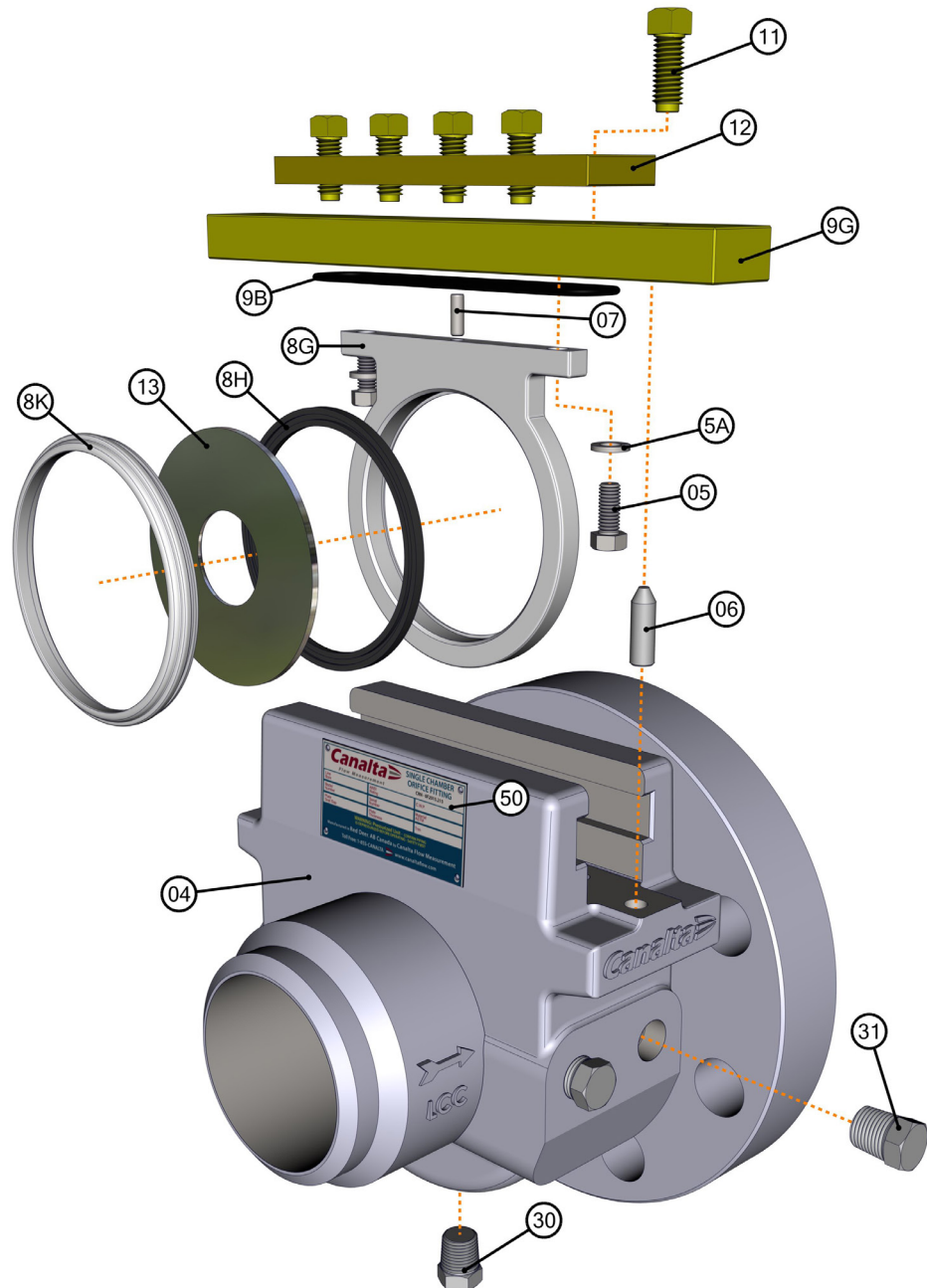
2" - 6" SINGLE CHAMBER ORIFICE FITTING PARTS

Part	Qty.	Description
04	1	Flangeneck Body
05	2	Plate Carrier Bolt
5A	2	Lock Washer
06	1	Seal Bar Alignment Pin
07	1	Plate Carrier Alignment Pin
8G	1	Plate Carrier
*8H	1	Seal Ring
*8K	1	"K" Style Retaining Ring
9G	1	Seal Bar
9B	1	Seal Bar O-ring
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
13	1	Orifice Plate
30	1	Drain Plug
31	4	Meter Tap Plug (Qty 8 with teletaps)
50	1	Specification Plate

A/R = As Required per Model Size

Speciality Material Not Listed Available Upon Request

* Other types of orifice plate seals are available upon request



VARIABLE BY MODEL SIZE

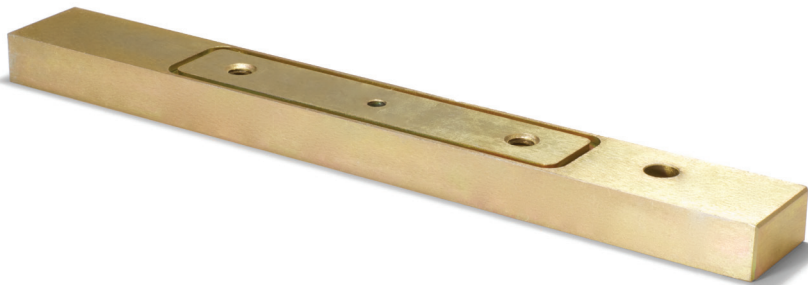
#8G Plate Carrier



Available in CF8M cast stainless steel.
If 85 Edition parts are required, replace "92-SS" with "85-SS" (applicable for Standard non-notched only)

CF8M Stainless Steel			
Size (Inches)	Part Number (Standard non-notched)	Part Number (Standard notched)	Notes
2	260SC08-92-SS	260SC08CN-92-SS	
3	360SC08-92-SS	360SC08CN-92-SS	
4	460SC08-92-SS	460SC08CN-92-SS	
6	660SC08-92-SS	660SC08CN-92-SS	

#9G Seal Bar



Available for 150 - 900 or 1500 /2500 ANSI ratings in 1018 YZP carbon steel and stainless steel option. Requires one seal bar O-ring (#9B).

150 - 900 ANSI		1500/2500 ANSI	Notes
Size (Inches)	Part Number	Part Number	
2	260SC09G	2250SC09G	
3	360SC09G	3250SC09G	
4	460SC09G	4250SC09G	
6	660SC09G	6250SC09G	

YZP = Yellow Zinc Plated

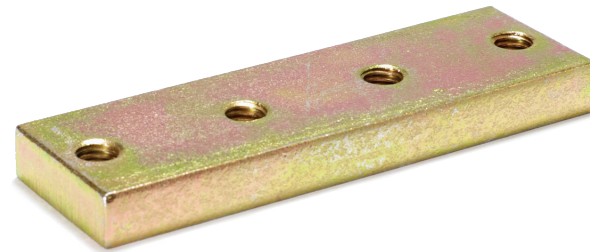
#9B Seal Bar O-ring



HNBR Rubber

Size (Inches)	Part Number	Notes
2	O241-80H	
3	O245-80H	
4	O250-80H	
6	O259-80H	


#12 Clamping Bar



Available for 150 - 900 or 1500/2500 ANSI ratings in 1018 YZP carbon steel and stainless steel option. Requires corresponding clamping bar screws (#11).

150 - 900 ANSI			1500 / 2500 ANSI	
Size (Inches)	Part Number	Notes	Part Number	Notes
2	260SC12		2250SC12	
3	360SC12		3250SC12	
4	460SC12		4250SC12	
6	660SC12		6250SC12	

COMMON TO ALL MODEL SIZES

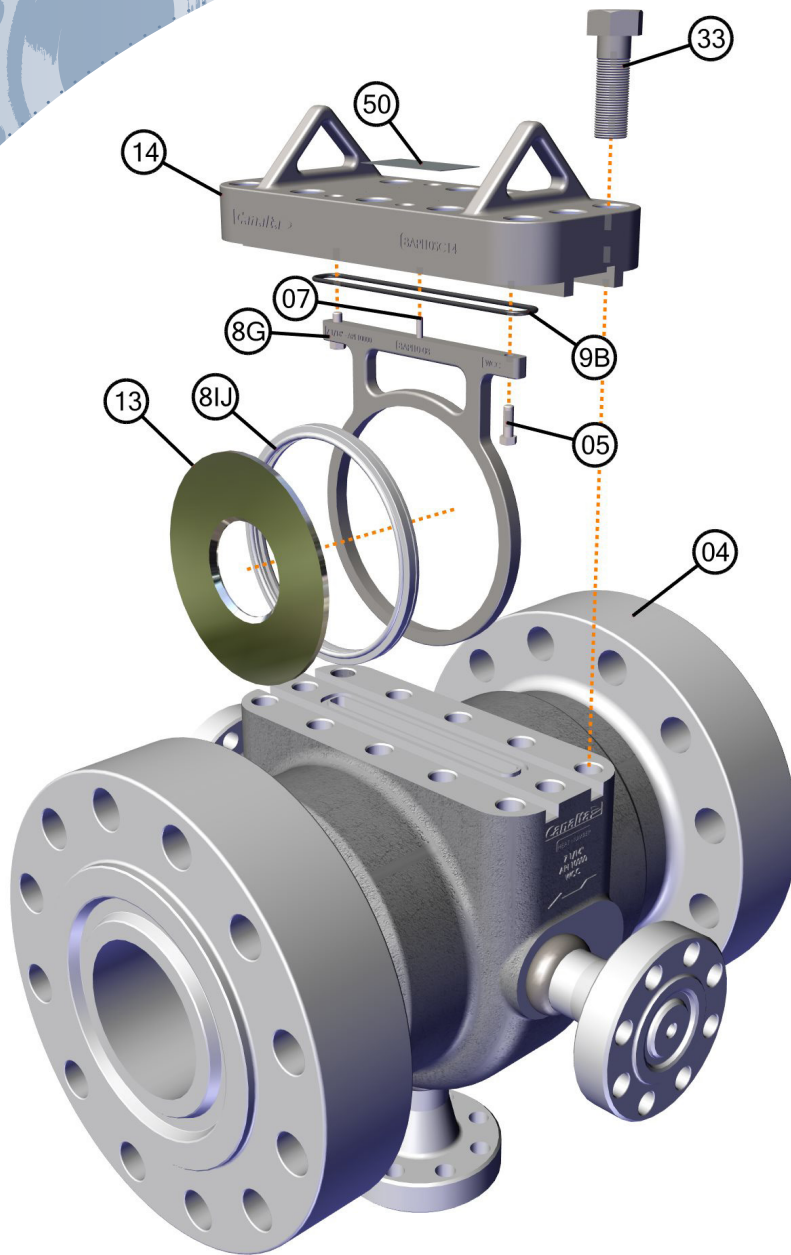
Item	Part Number	Material	Description		Notes
05	C60SC05	316 SS	Plate Carrier Bolt		
5A	C60SC05A	316 SS	Plate Carrier Lock Washer		
06	C60SC51	304 SS or 316 SS	Seal Bar Alignment Pin		
07	C60SC07	316 SS	Plate Carrier Alignment Pin		
11 ★	BSQNC-FT-0.500-13-1.250-CS-ZY	Case Hardened 4140 CS	Clamping Bar Screw (150-900 ANSI)		
11 ★	BSQNC-FT-0.625-11-2.500-CS-ZY	Case Hardened 4140 CS	Clamping Bar Screw (1500/2500 ANSI)		
30	PP3/4-A105N or PP3/4-A350	A105 CS or A350 CS	Drain Plug - 3/4" NPT		
31	PP1/2-A105N or PP1/2-A350	A105 CS or A350 CS	Meter Tap & Drain Plug - 1/2" NPT		
50	CSC50	Color Etched 316 SS	Specification Plate		

(Stainless Steel option available on most parts)



PARTS FOR 10,000 PSI SINGLE CHAMBER ORIFICE FITTINGS

10,000 PSI SINGLE CHAMBER ORIFICE FITTING

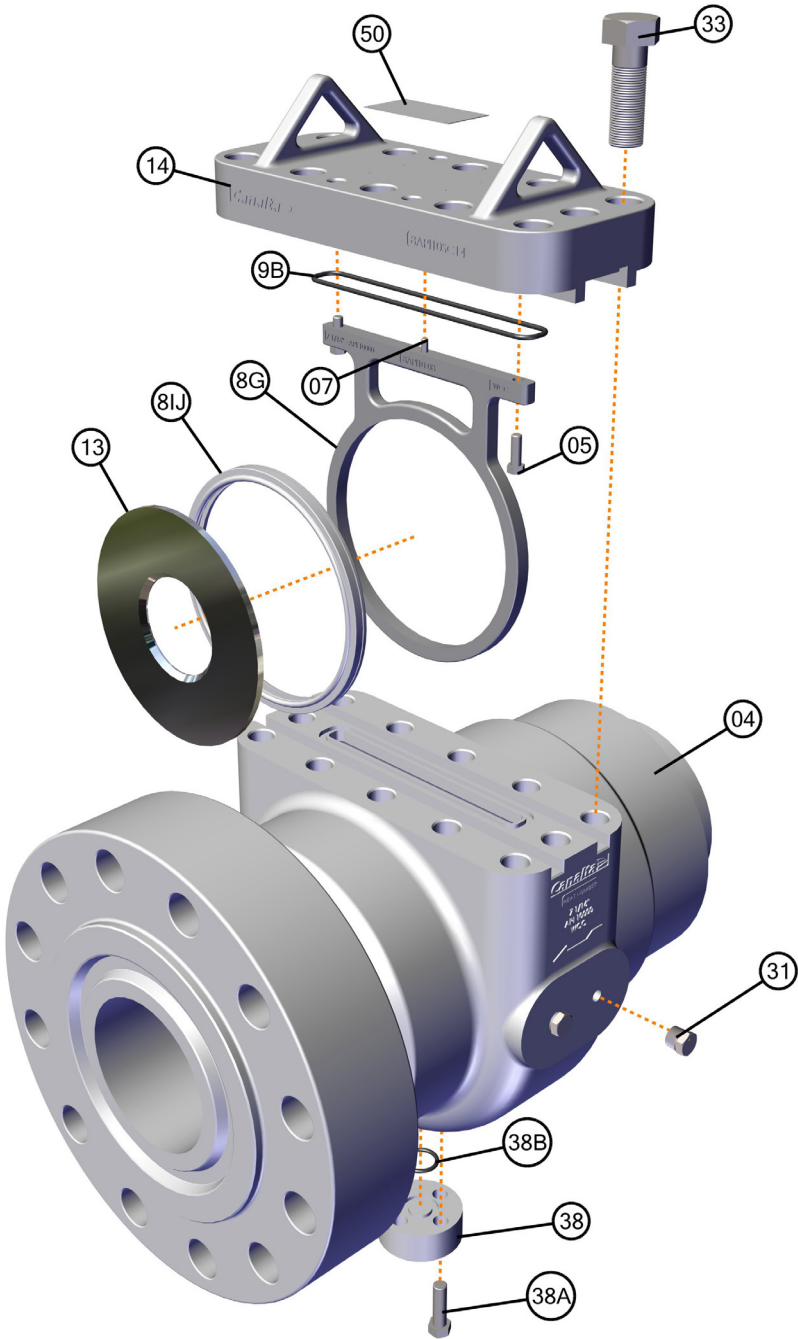


Part	Qty.	Description
04	1	Flange x Flange Body
05	2	Plate Carrier Bolt
07	1	Plate Carrier Alignment Pin
8G	1	Plate Carrier
*8IJ	1	Teflon Snap Seal Set
9B	1	Seal Bar O-ring
13	1	Orifice Plate
14	1	Top Casting
33	A/R	Body Screw
50	1	Specification Plate

A/R = As Required per Model Size

Other types of orifice plate seals are available upon request

VARIABLE BY MODEL SIZE



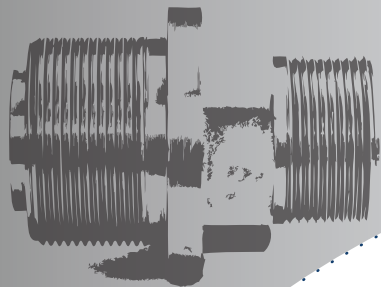
Item	Qty.	Description
04	1	Flangeneck Body
05	2	Plate Carrier Bolt
07	1	Plate Carrier Alignment Pin
8G	1	Plate Carrier
*8IJ	1	Teflon Snap Seal Set
9B	1	Seal Bar O-Ring
13	1	Orifice Plate
14	1	Top Casting
31	A/R	Hex Head DP Plug
33	A/R	Body Screw
38	1	Drain Cap
38A	4	Drain Cap Screw
38B	1	Drain Cap O-Ring
50	1	SC Specification Plate

A/R = As Required per Model Size

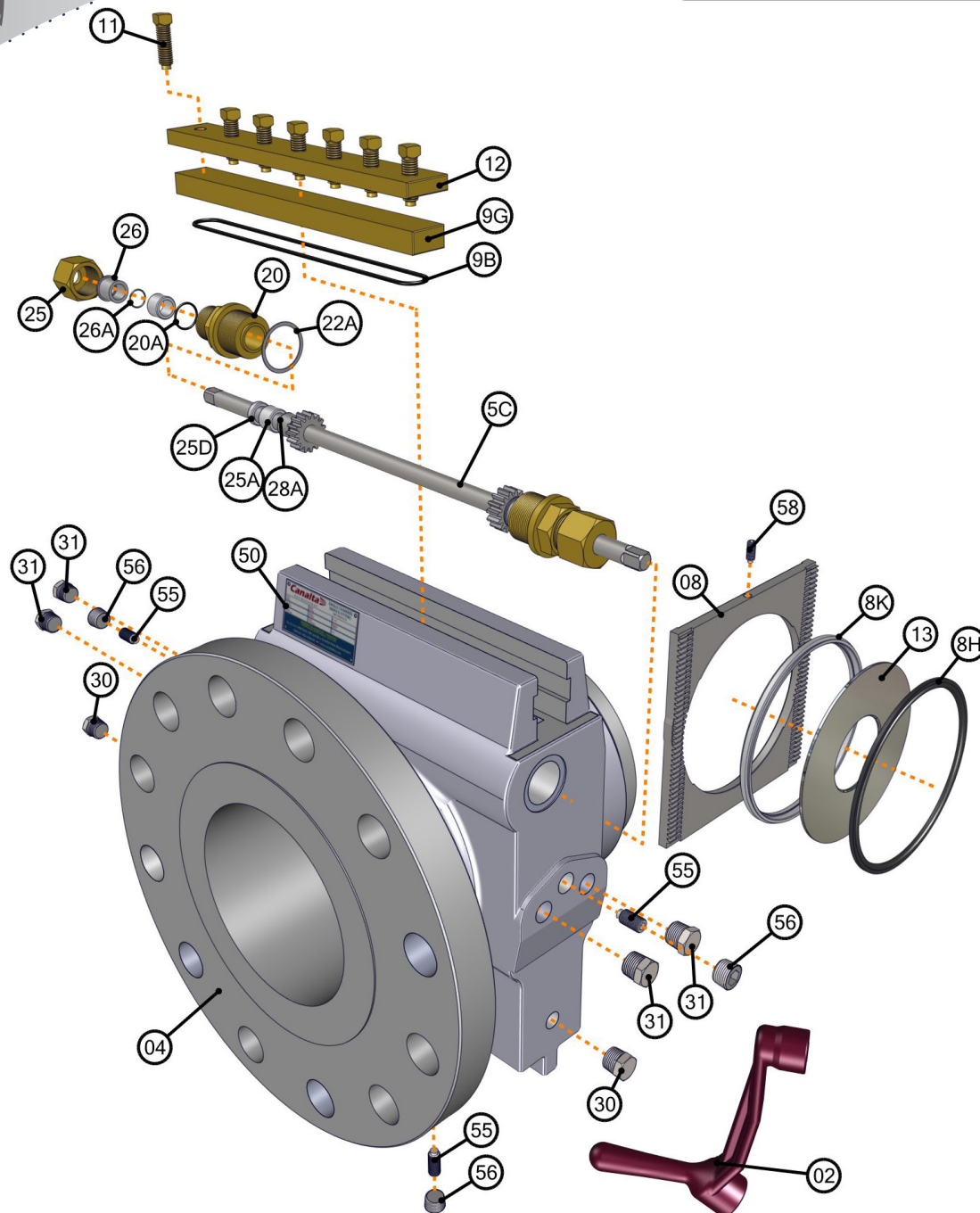
* Other types of orifice plate seals are available upon request



***PARTS FOR ALL
8"+ SINGLE CHAMBER,
DUAL CHAMBER &
DBB ORIFICE FITTINGS***



8" - 16" SINGLE CHAMBER ORIFICE FITTINGS



Part	Qty.	Description
02	1	Operating Wrench
04	1	Flangeneck Body
5C	1	Dual Shaft and Pinion Gear
08	1	Plate Carrier
* 8H	1	Seal Ring
* 8K	1	"K" Style Retaining Ring
9B	1	Seal Bar O-ring
9G	1	Seal Bar
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
13	1	Orifice Plate
20	1	Stuffing Box
20A	1	Stuffing Box Outer Gland Seal
22A	2	Stuffing Box Gasket
25	1	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	1	Stuffing Box Gland
26A	1	Stuffing Box Inner Gland Seal
28A	1	Bushing Retainer
30	2	Drain Plug
31	4	Meter Tap Plug
50	1	Specification Plate
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw

A/R = As Required per Model Size

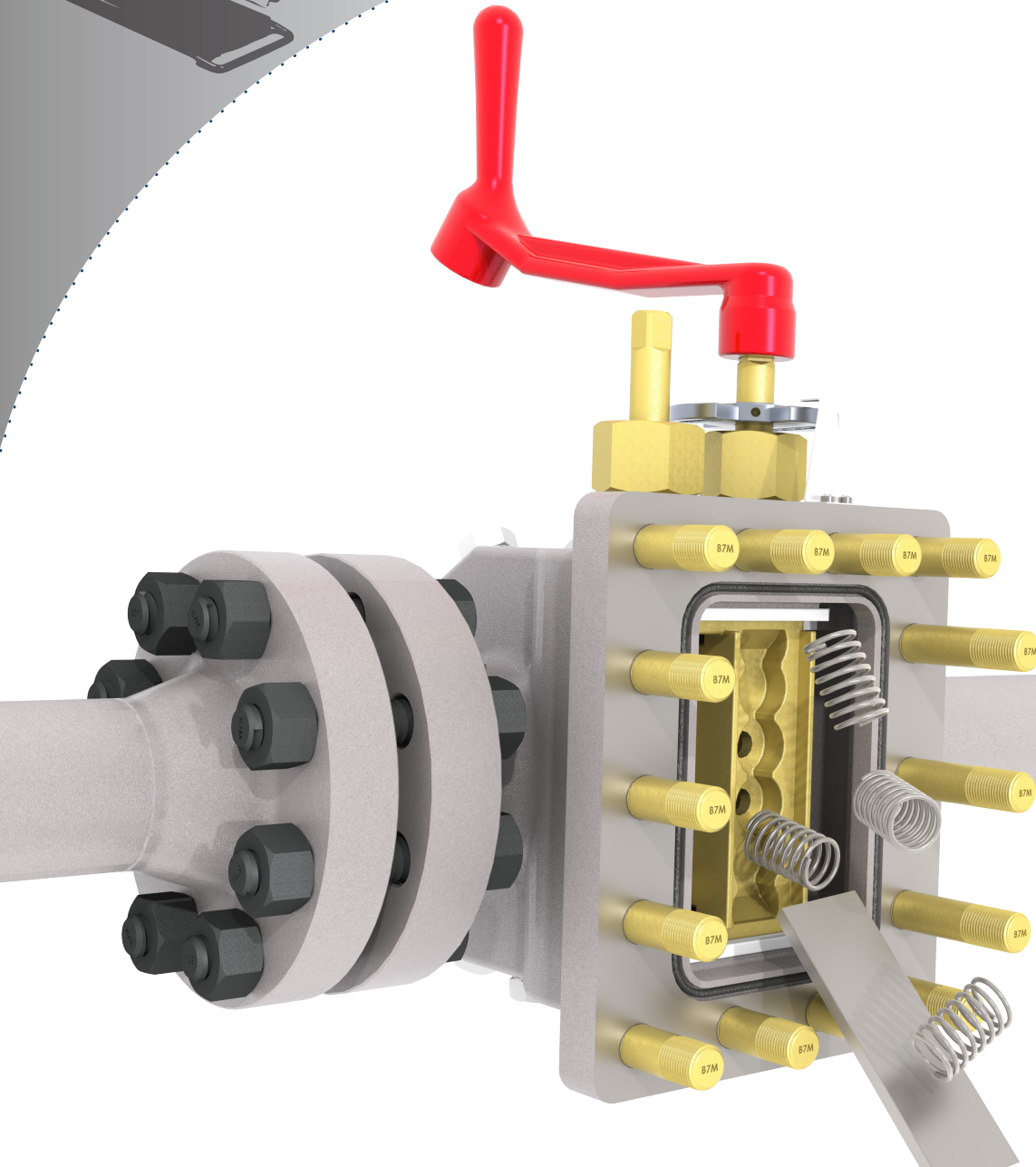
* Other types of orifice plate seals are available upon request

18"+ SINGLE CHAMBER ORIFICE FITTINGS

Part	Qty.	Description
02	1	Operating Wrench
04	1	Flangeneck Body
4A	1	Body O-ring
5C	2	Dual Shaft & Pinion Gear
08	1	Plate Carrier
8S	2	Plate Carrier Retainer Screw
8W	2	Plate Carrier Retainer Washer
9B	1	Seal Bar O-ring
9G	1	Seal Bar
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
* 13BH	1	Orifice Plate with Bonded Seal
14	1	Top Casting
19	2	Bearing Plug
20	2	Stuffing Box
20A	2	Stuffing Box Outer Gland Seal
22A	2	Stuffing Box Gasket
25	1	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	1	Stuffing Box Gland
26A	1	Stuffing Box Inner Gland Seal
28A	1	Bushing Retainer
30	2	Drain Plug
31	4	Meter Tap Plug
32	A/R	Body Hex Nuts
33	A/R	Body Stud
35B	2	External Shaft Roller
36	1	External Shaft
37C	4	Shaft Busing
41	2	Plate Carrier Guide (Left/Right)
41B	4	Plate Carrier Bolt
42A	1	Plate Carrier Stop
42B	1	Plate Carrier Stop Bolt
42C	1	Plate Carrier Stop Bushing
50	1	Specification Plate
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
70	1	Gear Shaft Assembly

A/R = As Required per Model Size

* Other types of orifice plate seals are available upon request



***LOOK LIKE A
FAMILIAR
PROBLEM?***

The vast majority of orifice fittings in service in North America are in vertical flow or rotated installations, and anyone who has worked with these units knows the frustration of reassembly after maintenance. Valve components shift out of position, the valve strip is misaligned or the assembly falls out of the body completely.

That's why Canalta developed the **CLIP-STYLE VALVE CARRIER**, a unique package that holds the valve carrier, springs and valve strip together without affecting the critical performance of the slide valve as a whole. These units are already in service worldwide and can improve your field operations as well.

Say goodbye to misaligned or damaged valve strips. Say goodbye to using two pounds of grease to reassemble the orifice meter after maintenance. Available as a retrofit for all existing Canalta and Daniel® Senior® orifice fittings, and shipping as the standard valve carrier configuration in new Canalta DC, DBB and DC FCH units from March 2014, **Canalta's Clip-style Valve Carrier** makes reassembly both faster and easier than ever before.



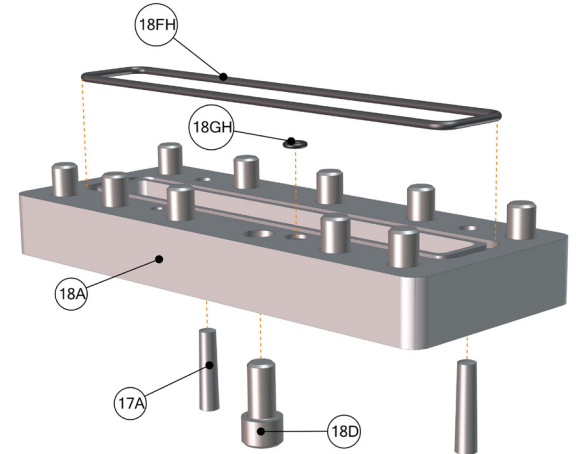
Patent Pending



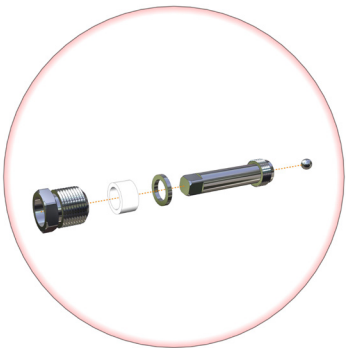
NOTE: Daniel® and Senior® are registered trademarks of Daniel Industries, Inc. Daniel Industries, Inc. is not affiliated with Canalta Flow Measurement in any manner. Daniel Industries has not reviewed, sanctioned or endorsed any products manufactured, reconditioned, sold or marketed by Canalta Flow Measurement.

2" - 14" DUAL CHAMBER ORIFICE FITTINGS

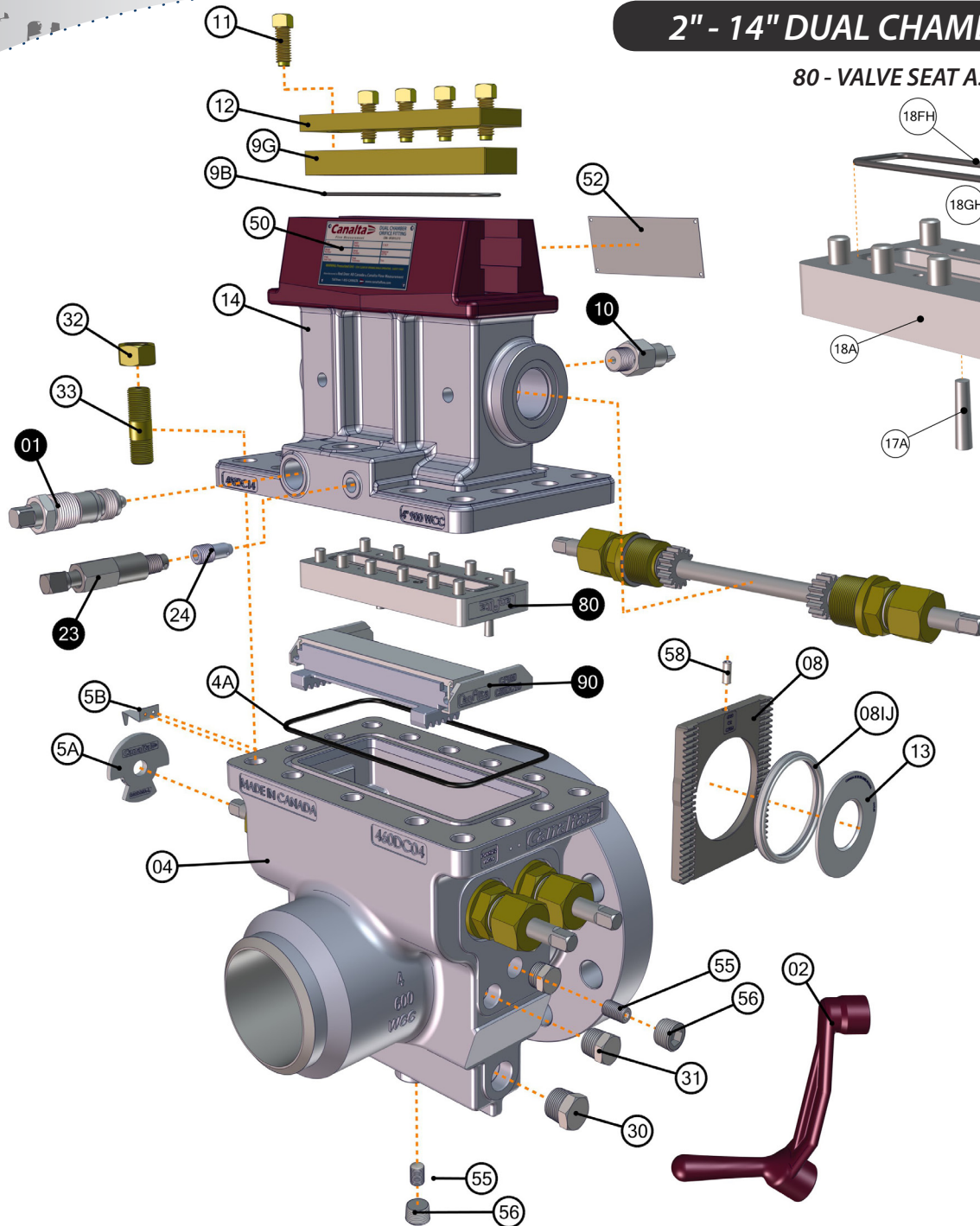
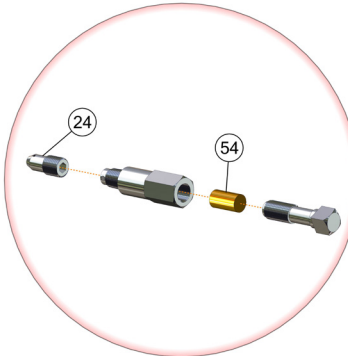
80 - VALVE SEAT ASSEMBLY

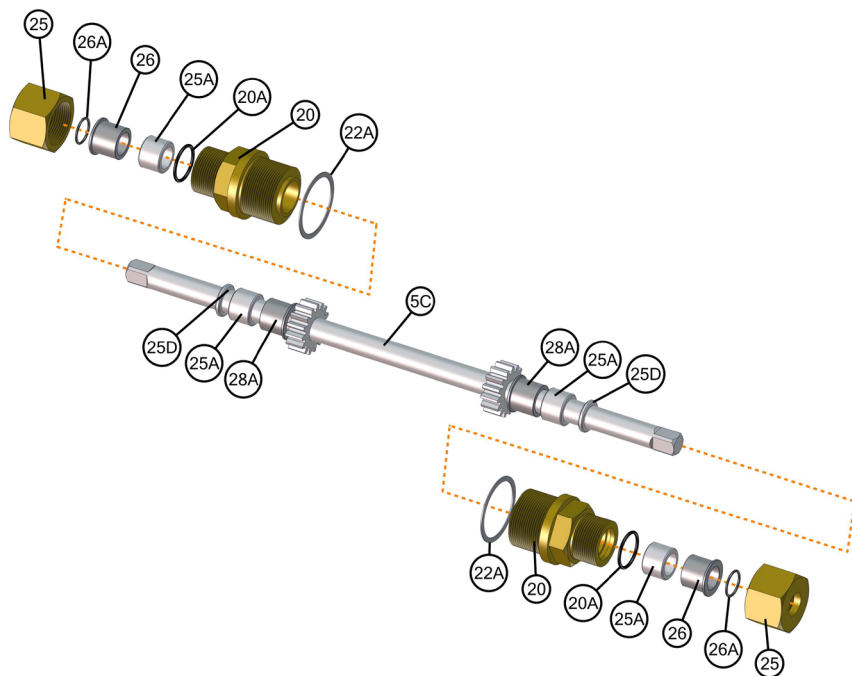
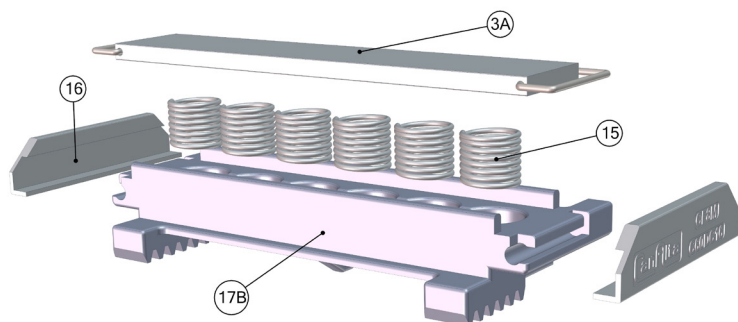


01 - EQUALIZER ASSEMBLY



23 - GREASE GUN ASSEMBLY (Used only on Grease Type Seat)



70 - GEAR SHAFT COMPONENTS**90 - CLIPPER VALVE ASSEMBLY**

Part	Qty.	Description
01	1	Equalizer Valve Assembly
1G	1	Equalizer Valve Stem
1H	1	Equalizer Valve Packing Nut
1D	1	Equalizer Ball
1K	1	Equalizer Packing Washer
1J	1	Equalizer Packing
02	1	Operating Wrench
3A	1	Clip Style Valve Strip
04	1	Flange x Flange Body
4A	1	Body O-ring
5C	3	Dual Shaft & Pinion Gear
5A	1	Slide Valve Indicator Plate
5B	1	Slide Valve Indicator Pointer
08	1	Plate Carrier
** 8K	1	"K" Style Retaining Ring
** 8H	1	Seal Ring
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10C	1	Bleeder Valve Body
10D	1	Bleeder Valve Needle
10E	1	Bleeder Valve O-ring
10G	1	Bleeder Valve Set Screw
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
13	1	Orifice Plate
14	1	Top Housing
15	A/R	Valve Spring
16	2	Valve Carrier Guide
17B	1	Valve Carrier

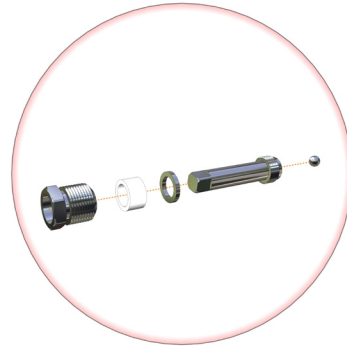
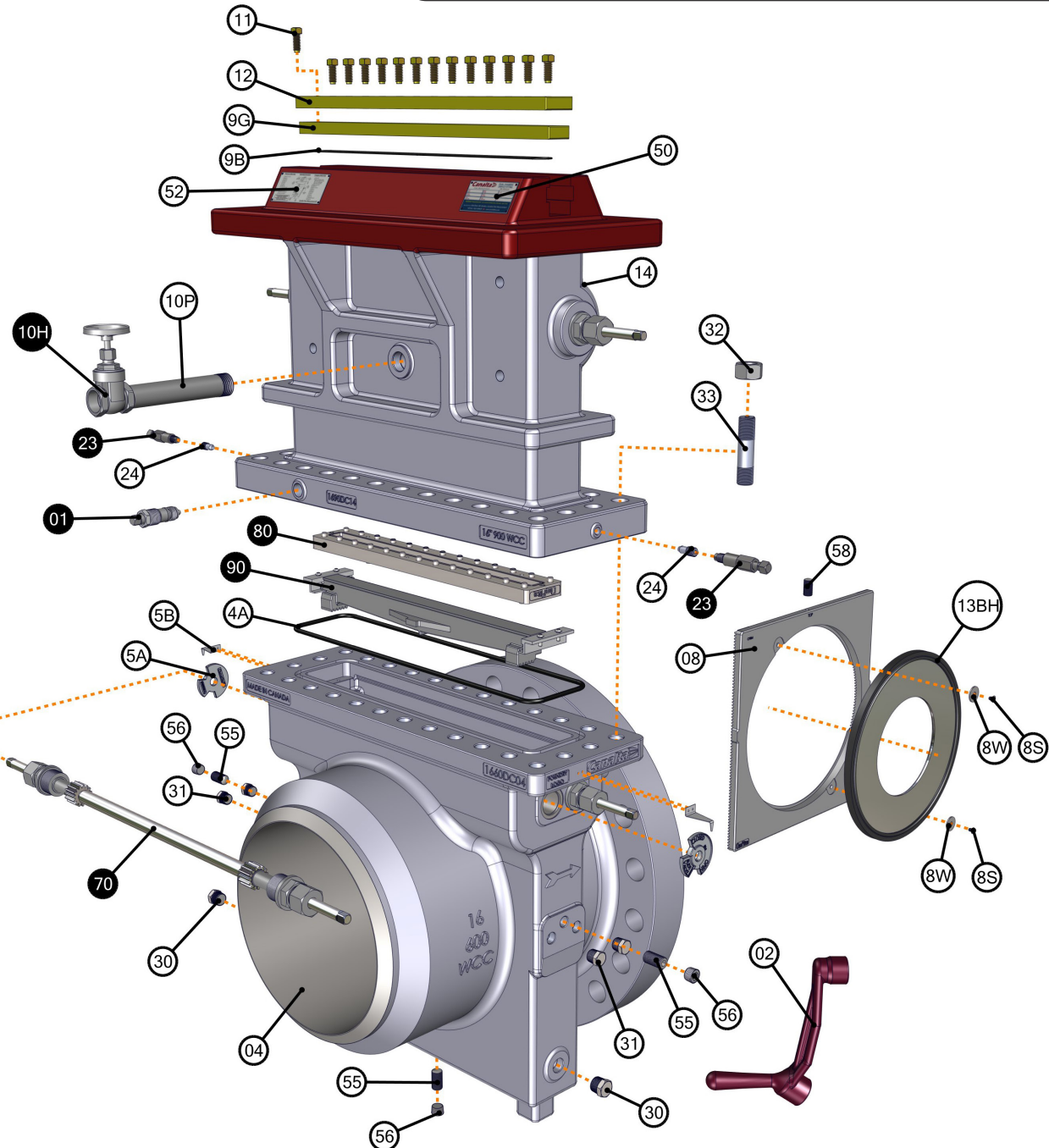
A/R = As Required per Model Size

* Not Applicable for Soft Seat design

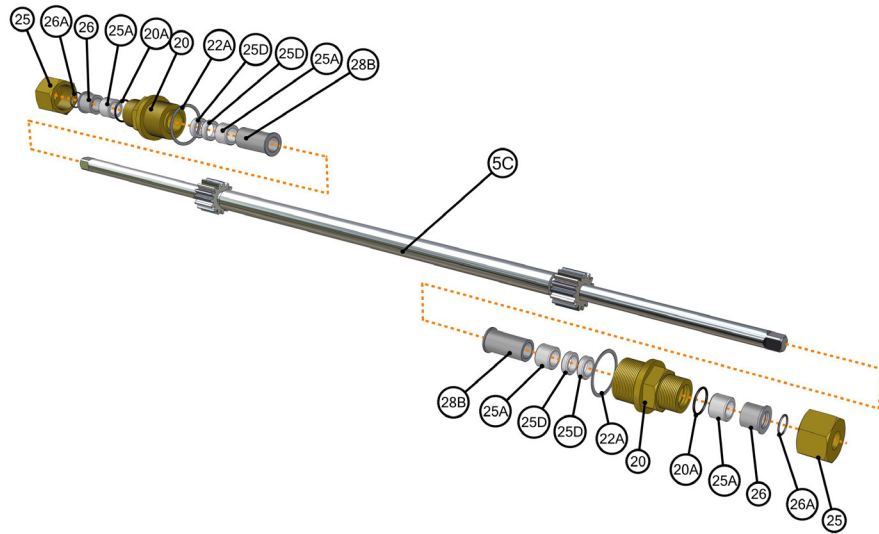
** Other types of orifice plate seals are available upon request

Part	Qty.	Description
17A	2	Valve Carrier Stop Pins
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screws
18FH	1	Valve Seat Top O-ring
18GH*	1	Valve Seat Grease Port Seal
19	3	Bearing Plug
20	3	Stuffing Box
20A	3	Stuffing Box Outer Gland Seal
22A	6	Stuffing Box Gaskets
* 23	1	Grease Gun Assembly
* 23A	1	Grease Gun Stem
* 23B	1	Grease Gun Body
24	1	Double Ball Grease Check Valve
25	3	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	3	Stuffing Box Glands
26A	3	Stuffing Box Inner Gland Seal
28A	3	Bushing Retainer - Stuffing Box
30	2	Drain Plug
31	4	Meter Tap Plug (Qty = 8 with teletaps)
32	A/R	Body Hex Nuts
33	A/R	Body Studs
50	1	Specification Plate
52	1	Operating Instruction Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Plugs
58	1	Plate Carrier Alignment Screw

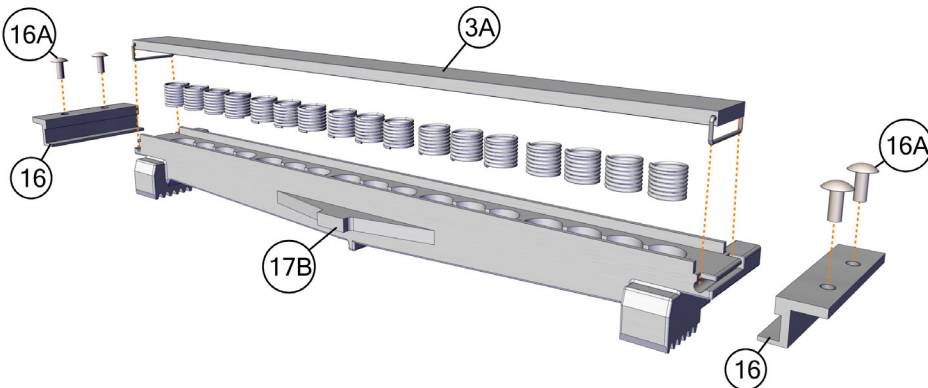
01 - EQUALIZER ASSEMBLY

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70 - GEAR SHAFT COMPONENTS



90 - CLIPPER VALVE ASSEMBLY



Part	Qty.	Description
01	1	Equalizer Valve Assembly
1G	1	Equalizer Valve Stem
1H	1	Equalizer Valve Packing Nut
1D	1	Equalizer Ball
1K	1	Equalizer Packing Washer
1J	1	Equalizer Packing
02	2	Operating Wrench
3A	1	Clip-Style Valve Strip
04	1	Flangeneck Body
4A	1	Body O-ring
5C	3	Dual Shaft & Pinion Gear
5A	2	Slide Valve Indicator Plate
5B	1	Slide Valve Indicator Pointer
08	1	Plate Carrier
8S	2	Plate Retaining Screw
8W	2	Plate retaining Washer
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10H	1	Bleeder Valve
10P	1	Bleeder Valve Pipe Nipple
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
** 13BH	1	Bonded "FLEX" Seal with Orifice Plate
14	1	Top Housing
15	A/R	Valve Spring
16	2	Valve Carrier Guide
16A	4	Valve Carrier Guide Screw
17A	2	Valve Carrier Stop Pin
17B	1	Valve Carrier
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screw

Part	Qty.	Description
18FH	1	Valve Seat Top O-ring
18GH*	2	Valve Seat Grease Port Seal
20	6	Stuffing Box
20A	6	Stuffing Box Outer Gland Seal
22A	6	Stuffing Box Gasket
* 23	1	Grease Gun Assembly
* 23A	1	Grease Gun Stem
* 23B	1	Grease Gun Body
24	1	Double Ball Grease Check Valve
25	6	Packing Nuts
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	6	Stuffing Box Gland
26A	6	Stuffing Box Inner Gland Seal
28B	6	Bushing Retainer - Stuffing Box
30	2	Drain Plug
31	4	Meter Tap Plug (Qty = 8 with teletaps)
32	A/R	Hex Nuts
33	A/R	Body Studs
50	1	Specification Plate
52	1	Operating Instruction Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
70	3	Gear Shaft Assemblies - See Detail
80	1	Valve Seat Assembly - See Detail
90	1	Clipper Valve Assembly - See Detail

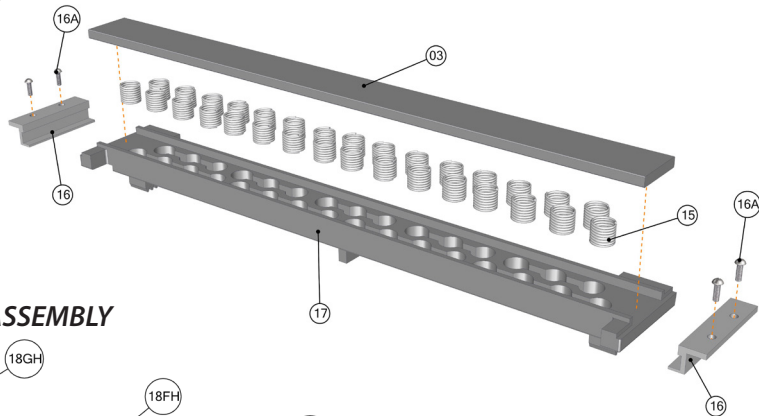
A/R = As Required per Model Size

* Not Applicable for Soft Seat design

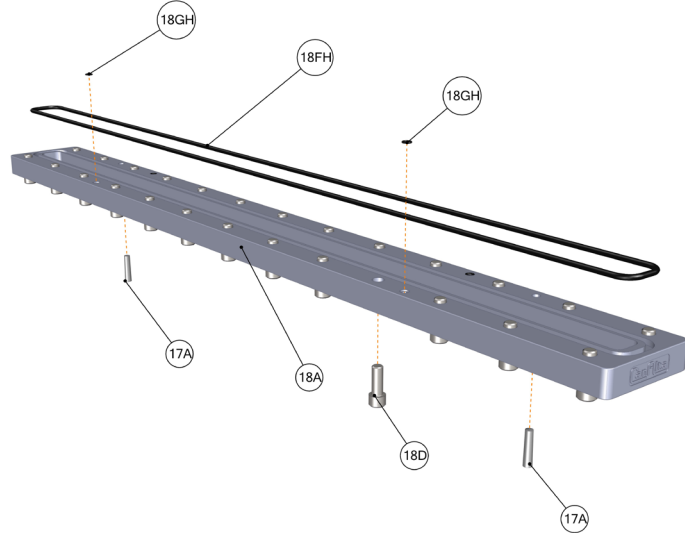
** Other types of orifice plate seals are available upon request

18" - 30" DUAL CHAMBER ORIFICE FITTINGS

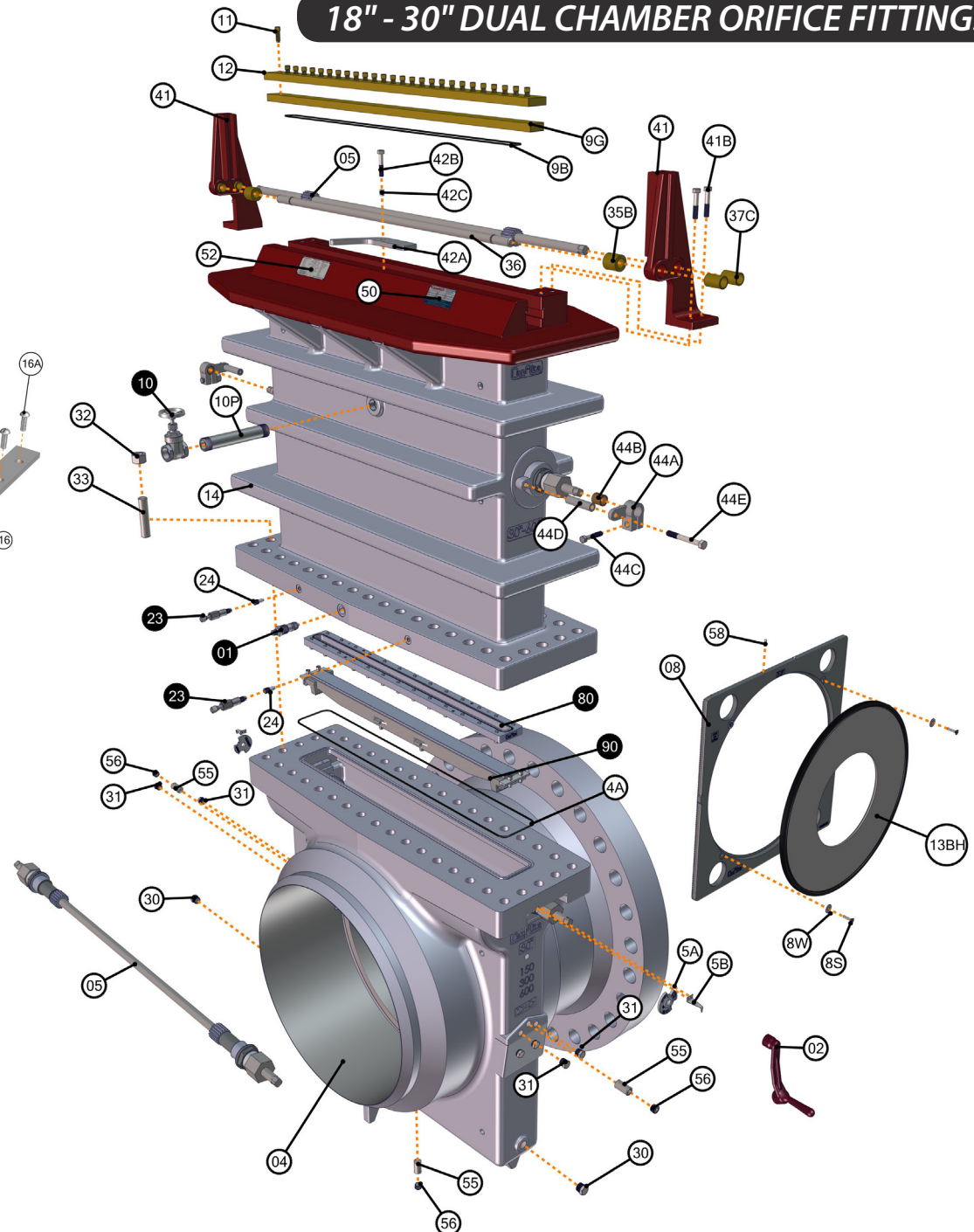
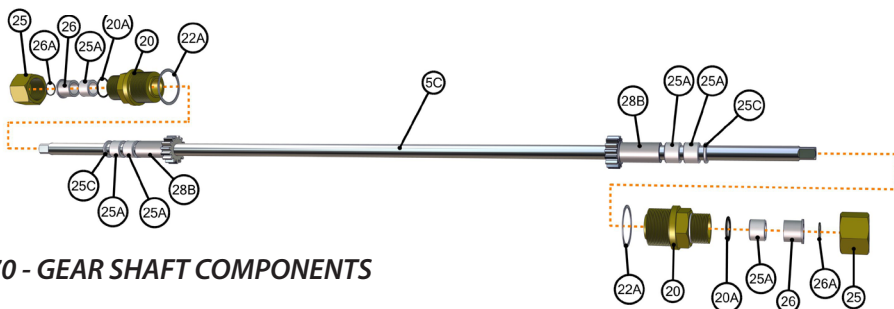
90 - VALVE ASSEMBLY



80 - VALVE SEAT ASSEMBLY



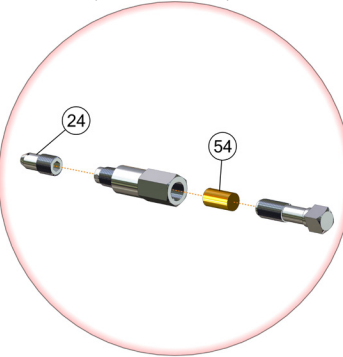
70 - GEAR SHAFT COMPONENTS



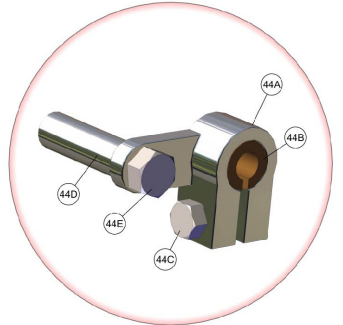
01 - EQUALIZER ASSEMBLY



23 - GREASE GUN ASSEMBLY (Used only on Grease Type Seat)



44 - BRAKE ASSEMBLY



Part	Qty.	Description
01	1	Equalizer Valve Assembly
1G	1	Equalizer Valve Stem
1H	1	Equalizer Valve Packing Nut
1D	1	Equalizer Ball
1K	1	Equalizer Packing Washer
1J	1	Equalizer Packing
02	2	Operating Wrench
03	1	Valve Strip
04	1	Flangeneck Body
4A	1	Body O-ring
5C	4	Dual Shaft & Pinion Gear
5A	2	Slide Valve Indicator Plate
5B	2	Slide Valve Indicator Pointer
08	1	Plate Carrier
8S	2	Plate Retaining Screw
8W	2	Plate retaining Washer
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10H	1	Bleeder Valve
10P	1	Bleeder Valve Pipe Nipple
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
** 13BH	1	Bonded "FLEX" Seal with Orifice Plate
14	1	Top Housing
15	A/R	Valve Spring
16	2	Valve Carrier Guide
16A	4	Valve Carrier Guide Screw
17	1	Valve Carrier
17A	2	Valve Carrier Stop Pin

Part	Qty.	Description
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screw
18FH	1	Valve Seat Top O-ring
18GH*	2	Valve Seat Grease Port Seal
20	6	Stuffing Box
20A	6	Stuffing Box Outer Gland Seal
22A	6	Stuffing Box Gasket
* 23	2	Grease Gun Assembly
* 23A	2	Grease Gun Stem
* 23B	2	Grease Gun Body
24	2	Double Ball Grease Check Valve
25	6	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	6	Stuffing Box Glands
26A	6	Stuffing Box Inner Gland Seal
26B	6	Stuffing Box Outer Gland Seal
28B	6	Bushing Retainer - Stuffing Box
30	2	Drain Plug
31	4	Meter Tap Plugs (Qty = 8 with teletaps)
32	A/R	Hex Nuts
33	A/R	Body Stud
35B	2	External Shaft Roller
36	1	External Shaft
37C	4	Shaft Bushing
41B	4	Plate Carrier Guide Bolt
41L	1	Plate Carrier Guide Left
41R	1	Plate Carrier Guide Right
42A	1	Plate Carrier Stop

Part	Qty.	Description
42B	1	Plate Carrier Stop Bolt
42C	1	Plate Carrier Stop Bushing
44A	1	Travel Brake Body
44B	1	Brake Band
44C	1	Brake Adjustment Bolt
44D	1	Brake Sleeve
44E	1	Hex Head Bolt
50	1	Specification Plate
52	1	Operating Instruction Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
70	3	Gear Shaft Assemblies - See Detail
80	1	Valve Seat Assembly - See Detail
90	1	Valve Assembly - See Detail

A/R = As Required per Model Size

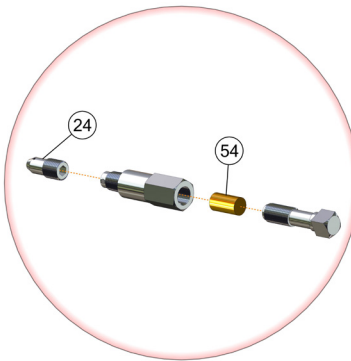
* Not Applicable for Soft Seat design

** Other types of orifice plate seals are available upon request

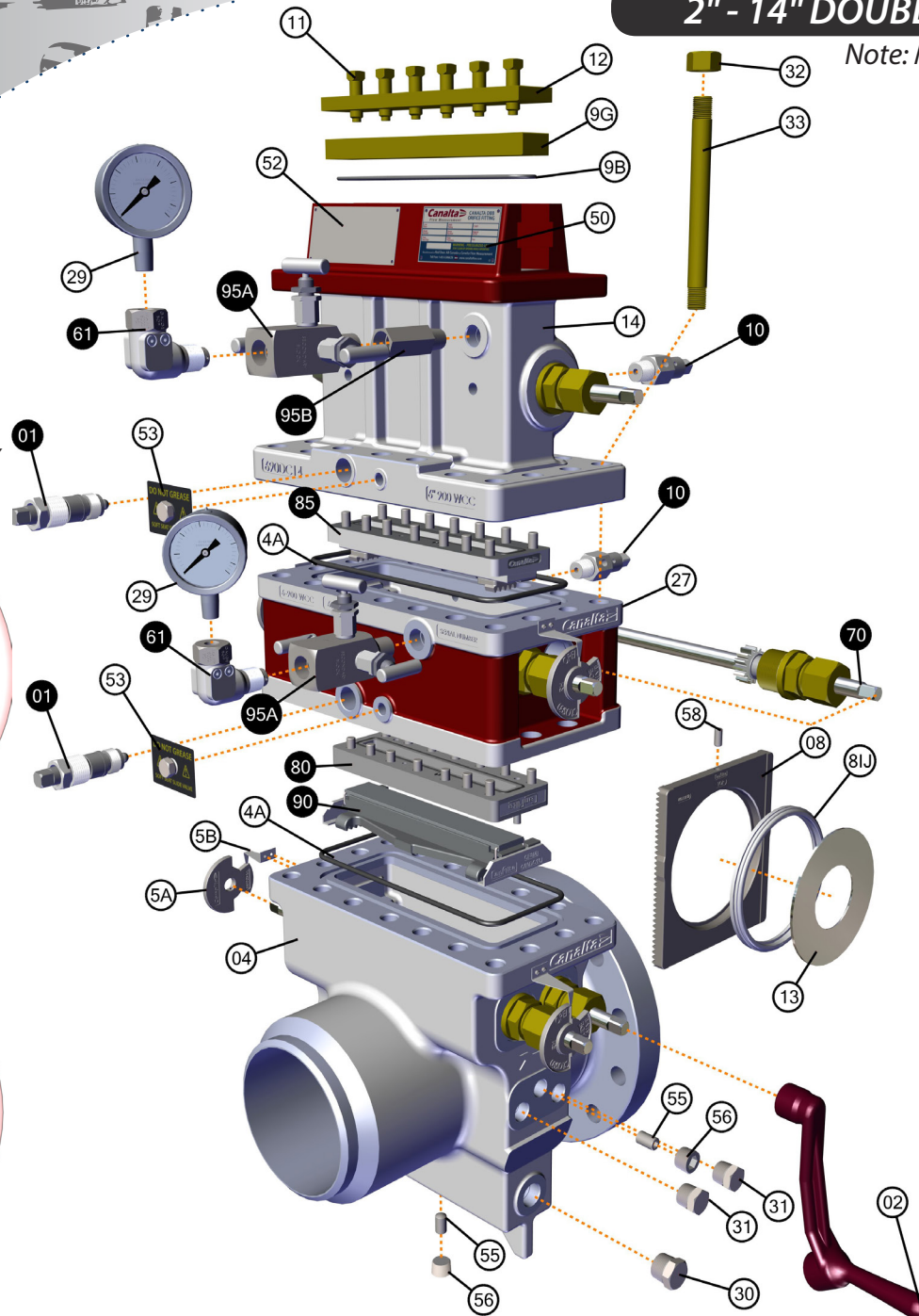
2" - 14" DOUBLE BLOCK & BLEED ORIFICE FITTINGS

Note: Meter shown is Soft Seat design

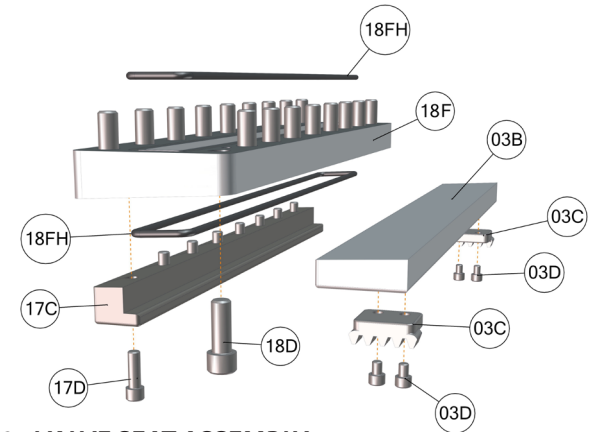
23 - GREASE GUN ASSEMBLY (Used only on Grease Type Seat)



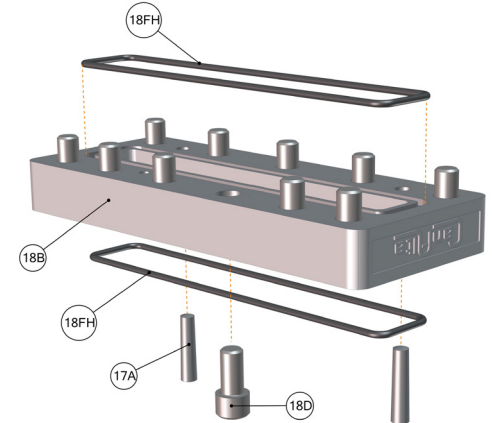
01 - EQUALIZER ASSEMBLY



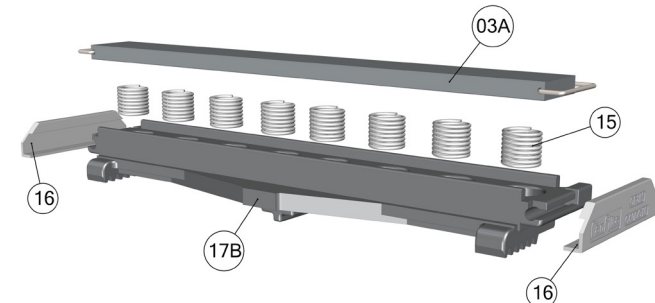
85 - WEDGE VALVE SEAT ASSEMBLY



80 - VALVE SEAT ASSEMBLY



90 - CLIPPER VALVE ASSEMBLY



Part	Qty.	Description
01	2	Equalizer Valve Assembly
02	2	Operating Wrench
3A	1	Clip-Style Valve Strip
3B	1	Valve Strip (Wedge-style)
3C	2	Valve Strip Gear Plate
3D	4	Gear Plate Screw
04	1	Flangeneck Body
4A	2	Body O-ring
5A	A/R	Slide Valve Indicator Plate
5B	A/R	Slide Valve Indicator Pointer
5C	5	Dual Shaft & Pinion Gear

Part	Qty.	Description
08	1	Plate Carrier
** 8IJ	1	Teflon Orifice Plate Seal
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10	2	Bleeder Valve
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
13	1	Orifice Plate
14	1	Top Housing
15	A/R	Valve Springs
16	2	Valve Carrier Guide
17A	2	Valve Carrier Stop Pin
17B	1	Valve Carrier
17C	1	Valve Stop Plate
17D	A/R	Stop Plate Screw
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screws
18F	1	Wedge Style Valve Seat
18FH	2	Valve Seat Top O-ring
18GH*	2	Valve Seat Grease Port Seal
20	10	Stuffing Box
20A	10	Stuffing Box Outer Gland Seal
20A	10	Stuffing Box Outer Gland Seal
22A	10	Stuffing Box Gasket
* 23	2	Grease Gun Assembly
24	2	Double Ball Grease Check Valve
25	10	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	A/R	Complete Packing Set

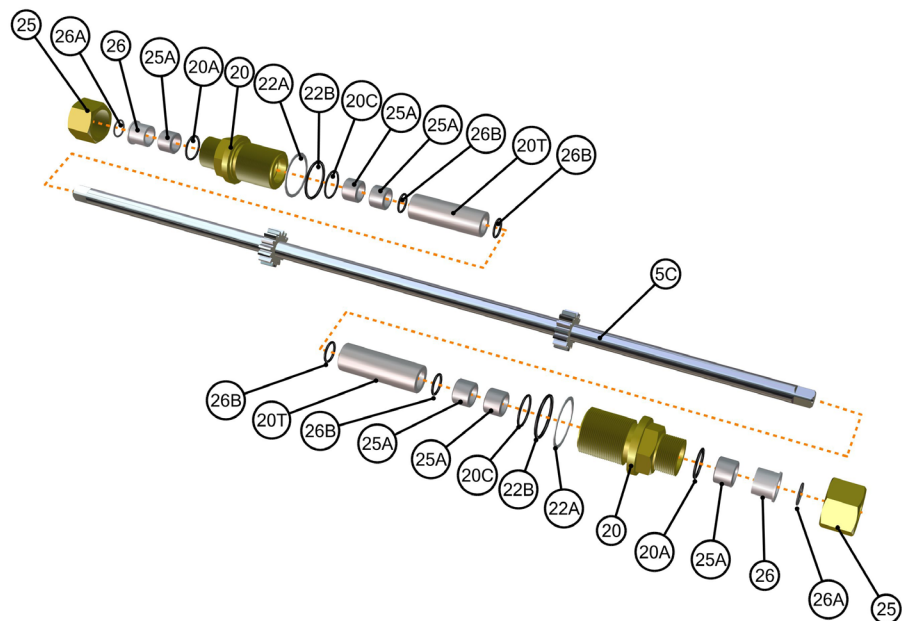
Part	Qty.	Description
26	10	Stuffing Box Glands
26A	10	Stuffing Box Inner Gland Seal
26B	A/R	Stuffing Box Inner Extension Seal
27	1	Mid Housing
29	2	Pressure Gauge
31	4	Meter Tap Plug (Qty = 8 with teletaps)
32	A/R	Hex Nuts
33	A/R	Body Studs
50	1	Specification Plate
52	1	Operating Instruction Plate
53	2	Soft Seat Warning Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
61	2	Swivel Blow Out Preventor
65	A/R	Valve Lockout Assembly (not shown)
70	5	Gear Shaft Assemblies - See Detail
80	1	Valve Seat Assembly - See Detail
85	1	Wedge Valve Assembly - See Detail
90	1	Clipper Valve Assembly - See Detail
95A	2	DBB Needle Valve Assembly
95B	1	Threaded Adapter

A/R = As Required per Model Size or option

* Not Applicable for Soft Seat design

** Other types of orifice plate seals are available upon request

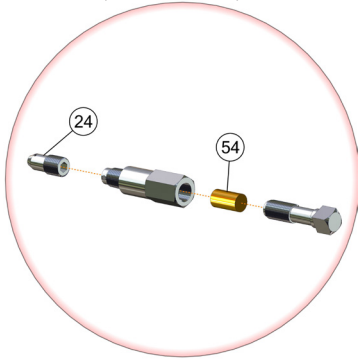
70 - GEAR SHAFT COMPONENTS



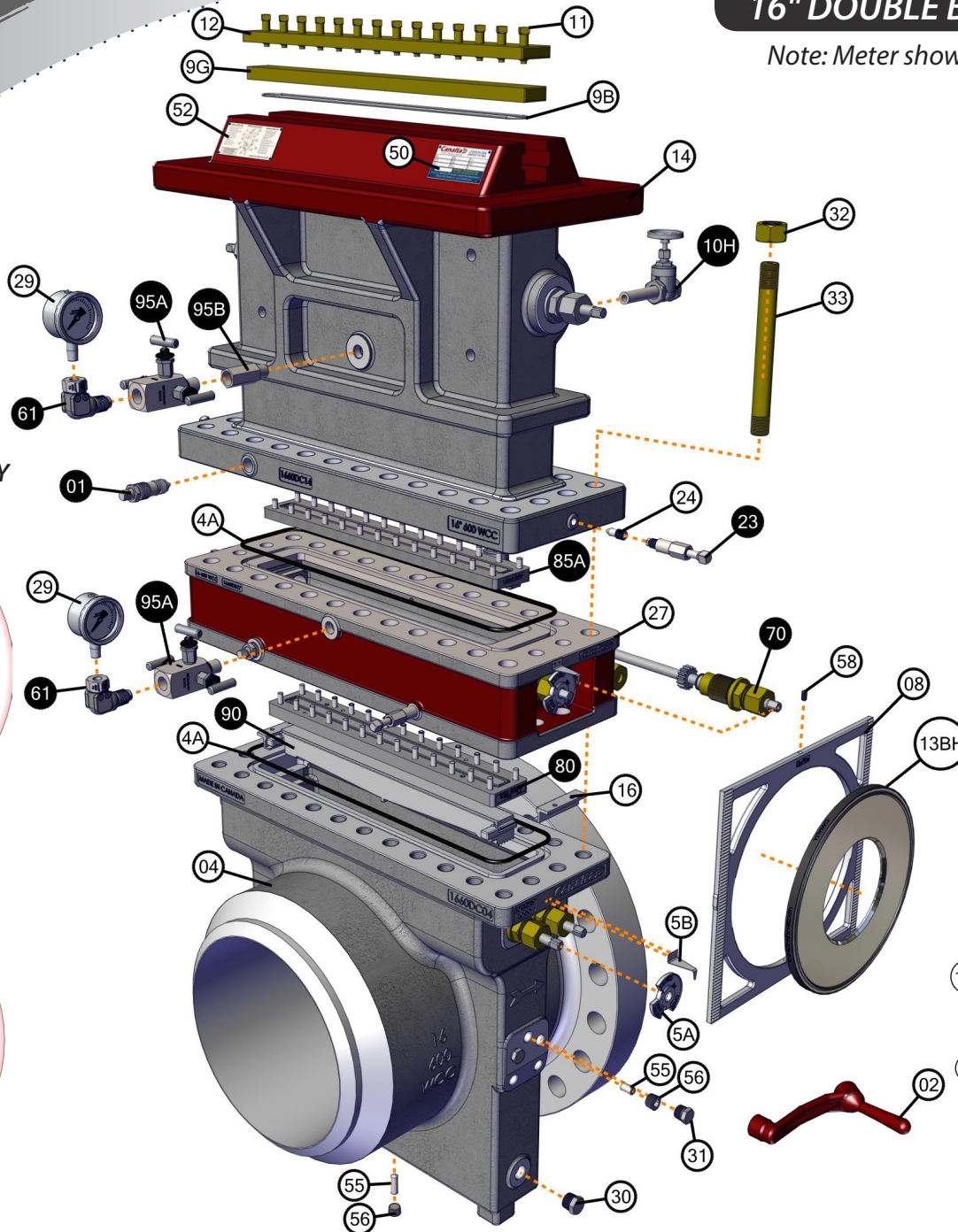
16" DOUBLE BLOCK & BLEED ORIFICE FITTINGS

Note: Meter shown is Grease Seat design

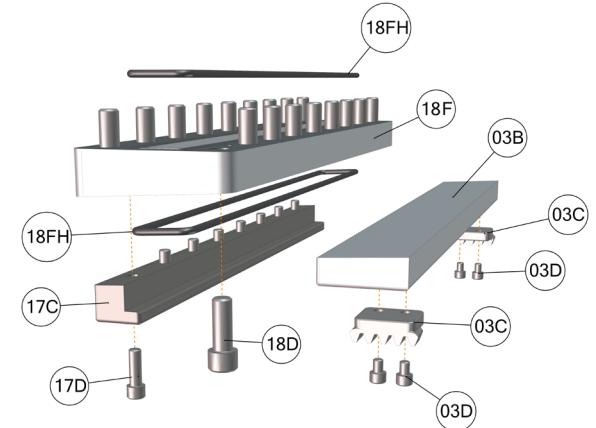
23 - GREASE GUN ASSEMBLY (Used only on Grease Type Seat)



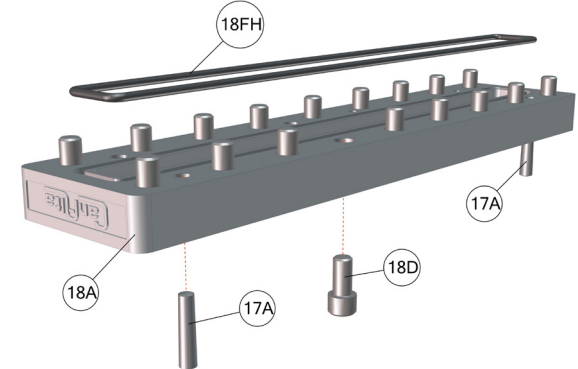
01 - EQUALIZER ASSEMBLY



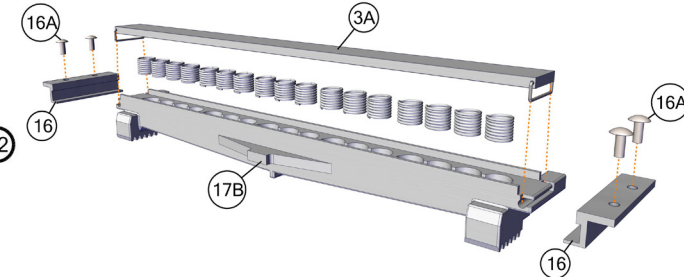
85 - WEDGE VALVE SEAT ASSEMBLY



80 - VALVE SEAT ASSEMBLY



90 - VALVE ASSEMBLY



Part	Qty.	Description
01	2	Equalizer Valve Assembly
02	2	Operating Wrench
3A	1	Clip-Style Valve Strip
3B	1	Valve Strip (Wedge-style)
3C	2	Valve Strip Gear Plate
3D	4	Gear Plate Screw
04	1	Flangeneck Body
4A	2	Body O-ring
5A	A/R	Slide Valve Indicator Plate
5B	A/R	Slide Valve Indicator Pointer
5C	5	Shaft & Pinion Gear

Part	Qty.	Description
08	1	Plate Carrier
** 13BH	1	Bonded "FLEX" Seal with Orifice Plate
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10H	2	Bleeder Valve
10P	2	Bleeder Valve Pipe Nipple
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
14	1	Top Housing
15	A/R	Valve Spring
16	2	Valve Carrier Guide
17A	2	Valve Carrier Stop Pin
17B	1	Valve Carrier
17C	1	Valve Stop Plate
17D	A/R	Stop Plate Screw
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screw
18F	1	Wedge Style Valve Seat
18FH	A/R	Valve Seat Top O-ring
18GH*	A/R	Valve Seat Grease Port Seal
20	10	Stuffing Box
20A	10	Stuffing Box Outer Gland Seal
20T	10	Stuffing Box Extension
22A	10	Stuffing Box Gasket
* 23	A/R	Grease Gun Assembly
24	A/R	Double Ball Grease Check Valve
25	10	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	A/R	Complete Packing Set

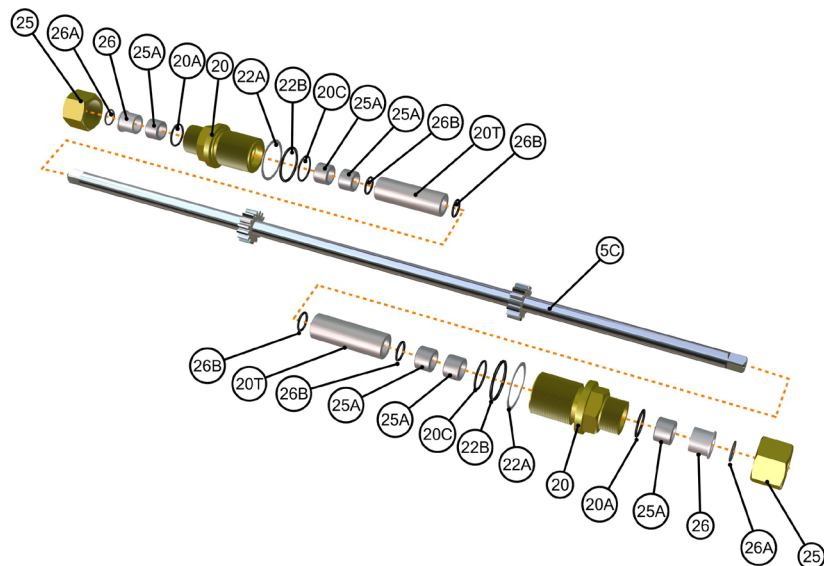
Part	Qty.	Description
26	10	Stuffing Box Gland
26A	10	Stuffing Box Inner Gland Seal
26B	A/R	Stuffing Box Inner Extension Seal
27	1	Mid Housing
28A	10	Bushing Retainer - Stuffing Box
29	2	Pressure Gauge
31	4	Meter Tap Plug (Qty = 8 with teletaps)
32	A/R	Hex Nut
33	A/R	Body Stud
50	1	Specification Plate
52	1	Operating Instruction Plate
53	1	Soft Seat Warning Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
61	2	Swivel Blow Out Preventor
65	1	Valve Lockout Assembly (not shown)
70	5	Gear Shaft Assemblies - See Detail
80	1	Valve Seat Assembly - See Detail
85	1	Wedge Valve Assembly - See Detail
90	1	Clipper Valve Carrier Assembly - See Detail
95A	2	DBB Needle Valve Assembly
95B	A/R	Threaded Adapter

A/R = As Required per Model Size or option

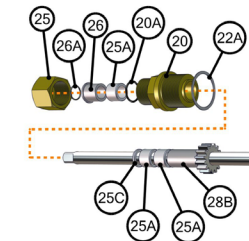
* Not Applicable for Soft Seat design

** Other types of orifice plate seals are available upon request

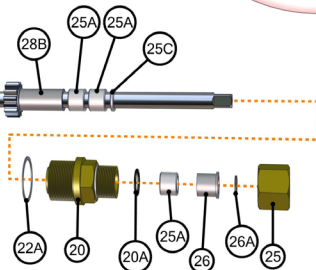
70 - GEAR SHAFT COMPONENTS



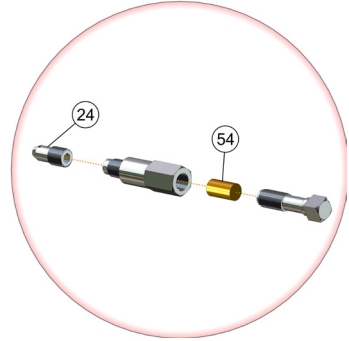
85 - WEDGE VALVE SEAT ASSEMBLY



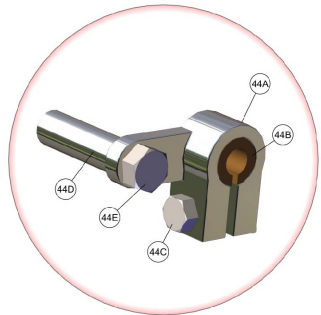
01 - EQUALIZER ASSEMBLY



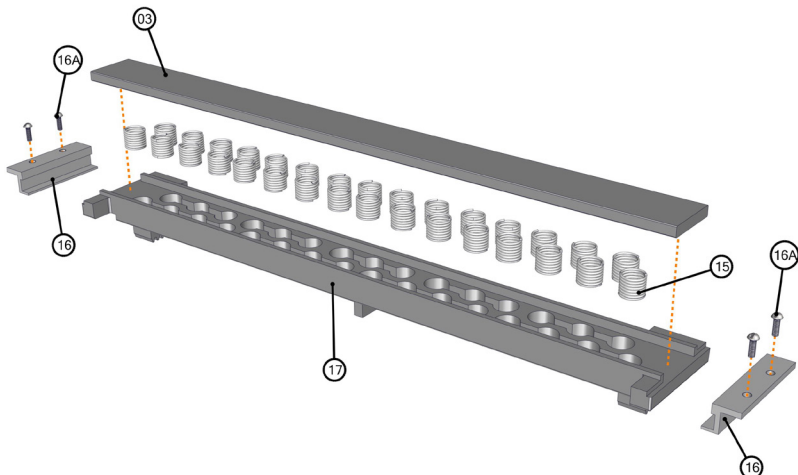
23 - GREASE GUN ASSEMBLY (Used only on Grease Type Seat)



44 - BRAKE ASSEMBLY



90 - VALVE ASSEMBLY



Part	Qty.	Description
01	2	Equalizer Valve Assembly
02	2	Operating Wrench
03	1	Valve Strip
3B	1	Wedge Style Valve Strip
3C	2	Valve Strip Gear Plate
3D	4	Gear Plate Screw
04	1	Flangeneck Body
4A	2	Body O-ring
5C	6	Dual Shaft & Pinion Gear
5A	2	Slide Valve Indicator Plate
5B	2	Slide Valve Indicator Pointer
08	1	Plate Carrier
8W	2	Plate Carrier Retaining Screw
8W	2	Plate Carrier Retaining Washer
9G	1	Seal Bar with O-ring Groove
9B	1	Seal Bar O-ring
10H	2	Bleeder Valve
10P	2	Bleeder Valve Pipe Nipple
11	A/R	Clamping Bar Screw
12	1	Clamping Bar

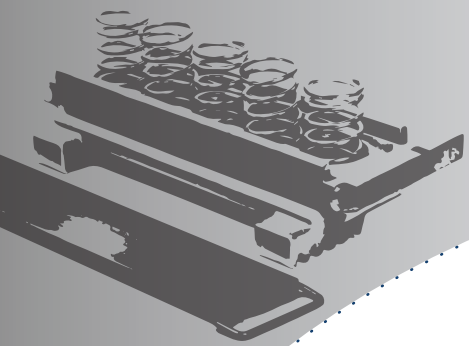
Part	Qty.	Description
**13BH	1	Bonded "FLEX" Seal with Orifice Plate
14	1	Top Housing
15	A/R	Valve Spring
16	2	Valve Carrier Guide
16A	4	Valve Carrier Guide Screw
17	1	Valve Carrier
17A	2	Valve Carrier Stop Pin
17C	1	Valve Stop Plate
17D	A/R	Stop Plate Screw
18A*/B	1	Valve Seat (Grease* /Soft)
18D	A/R	Valve Seat Screw
18F	1	Wedge Style Valve Seat
18FH	A/R	Valve Seat Top O-ring
18GH*	A/R	Valve Seat Grease Port Seal
20	10	Stuffing Box
20A	10	Stuffing Box Outer Gland Seal
20T	10	Stuffing Box Extension
22A	10	Stuffing Box Gasket
* 23	A/R	Grease Gun Assembly
* 23A	A/R	Grease Gun Stem
* 23B	A/R	Grease Gun Body
24	A/R	Double Ball Grease Check Valve
25	10	Packing Nut
25A-F	A/R	Packing Sleeve
25S2	1	Complete Packing Set
26	6	Stuffing Box Glands
26A	6	Stuffing Box Inner Gland Seal
26	6	Stuffing Box Outer Gland Seal
28B	6	Bushing Retainer - Stuffing Box
30	2	Drain Plug
31	4	Meter Tap Plugs (Qty = 8 with teletaps)
32	A/R	Hex Nut

Part	Qty.	Description
33	A/R	Body Stud
35B	2	External Shaft Roller
36	1	External Shaft
37C	4	Shaft Bushing
41B	4	Plate Carrier Guide Bolt
41L	1	Plate Carrier Guide Left
41R	1	Plate Carrier Guide Right
42A	1	Plate Carrier Stop
42B	1	Plate Carrier Stop Bolt
42C	1	Plate Carrier Stop Bushing (not shown)
44	1	Travel Brake Assembly
44A	1	Travel Brake Body
44B	1	Brake Band
44C	1	Brake Adjustment Bolt
44D	1	Brake Sleeve
44E	1	Hex Head Bolt
50	1	Specification Plate
52	1	Operating Instruction Plate
* 54	A/R	Slide Valve Lubricant
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Pin Plug
58	1	Plate Carrier Alignment Screw
61	2	Swivel Blow Out Preventor
65	1	Valve Lockout Assembly
70	3	Gear Shaft Assemblies - See Detail
80	1	Valve Seat Assembly - See Detail
85	1	Wedge Valve Seat Assembly - See Detail
90	1	Valve Assembly - See Detail
95A	2	DBB Needle Valve Assembly
95B	A/R	Threaded Adapter

A/R = As Required per Model Size or option

* Not Applicable for Soft Seat design

** Other types of orifice plate seals are available upon request



***SPARE PARTS FOR ALL
8"+ SINGLE CHAMBER,
DUAL CHAMBER &
DBB ORIFICE FITTINGS***

CANALTA REPAIR KITS**CANALTA ORIFICE FITTING REPAIR KITS**

include a full complement of orifice fitting parts, allowing for a complete rebuild of the orifice fitting or replenishment of spare parts inventory. These kits are available with 316 stainless steel internals for standard applications or Duplex and Super Duplex internals for extreme corrosive applications. All repair kits include high grade HNBR internal seals and are packaged in a sturdy resin case for easy storage or transport.

Repair kits for Daniel® Senior® Orifice Fittings are equally comprehensive. These parts can also be supplied on an individual basis. Please contact us for full details on our servicing of Daniel product lines.

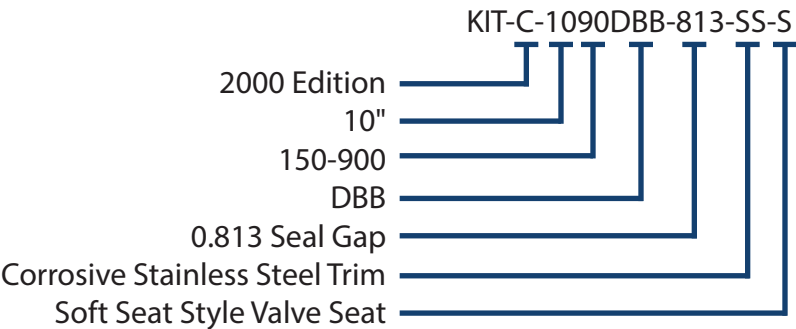
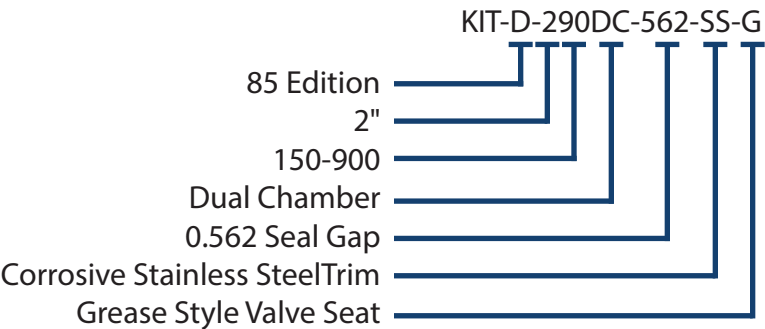
Trust Canalta Flow Measurement for high quality, competitively priced OEM and interchangeable orifice fitting



FULL REPAIR KITS

The repair kit part numbers are in the following format:
KIT - KIT TYPE - SIZE - ANSI CLASS - SEAL GAP - TRIM - VALVE SEAT

- KIT TYPE - 'C' (2000 Edition), 'D' (85 Edition), 'DN' (Daniels Notched)
- ANSI CLASS - 90 (150-900 ANSI), 150 (1500 ANSI) & 250 (2500 ANSI)
- METER TYPE - SC (Single Chamber), DC (Dual Chamber), & DBB (Double Block & Bleed)
- SEAL GAP - 562 (0.562 - 2"-6"), 688 (0.688 - 8"-14"), 813 (0.813 - 16"-20") & 875 (0.875 - 24"-30")
- TRIM - SS (Corrosive Stainless Steel) & FSS (Full Stainless Steel). Other materials are available upon request.
- VALVE SEAT - 'G' (Grease seat), 'S' (Soft Seat)
- GEARS - '2' (Dual Shaft)



Canalta can also provide Commissioning Kits and Spares Kits for all of the meters. These kit part numbers are based on the same format as above, replacing the KIT TYPE with either 'COM' (Commissioning Kit) or 'SP' (2 years full maintenance kit for strip down and rebuild).

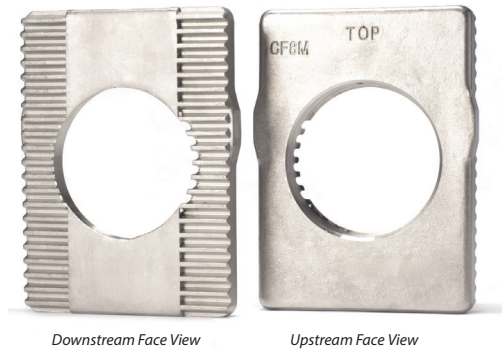
Commissioning Kits: Designed with replacement pieces that could be potentially damaged during transportation (IE: A gear assembly) and a set of replacement O-Rings. Intended for sale alongside new fitting orders.

2 Year Spare Parts Kits: Designed to include one change-out of the internal parts, two change-outs of the O-Rings, and only partial bolt up as these are seldom required to change out entirely. Intended for sale alongside new fitting orders.

NOTE: Daniel® and Senior® are registered trademarks of Daniel Industries, Inc. Daniel Industries, Inc. is not affiliated with Canalta Flow Measurement in any manner. Daniel Industries has not reviewed, sanctioned or endorsed any products manufactured, reconditioned, sold or marketed by Canalta Flow Measurement.

DBB, DUAL CHAMBER / 8"+ SINGLE CHAMBER FITTING PARTS

#8 Plate Carrier

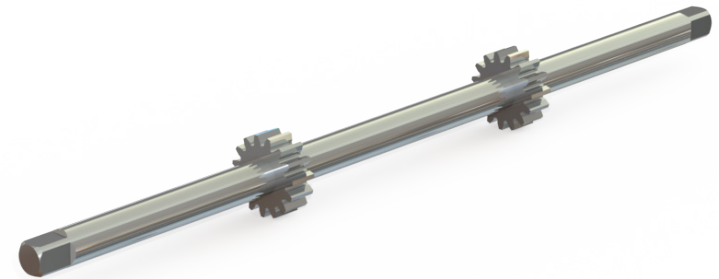


Available in CF8M cast stainless steel as standard.

If 85 Edition parts are required, replace "92-SS" with "85-SS" (applicable for Standard non-notched only)

CF8M Stainless Steel			
Model Size	Part Number (Standard non-notched)	Part Number (Standard Notched)	Notes
2	260DC08-92-SS	260DC08SN-92-SS	
3	360DC08-92-SS	360DC08SN-92-SS	
4	460DC08-92-SS	460DC08SN-92-SS	
6	660DC08-92-SS	660DC08SN-92-SS	
8 *	860DC08-00-625-SS	860DC08SN-92-SS	
10 *	1060DC08-SS		
12 *	1260DC08-SS		
14 *	1460DC08-SS		
16 *	1660DC08-SS		
18 *	1860DC08-SS		
20 *	2060DC08-SS		
24 *	2460DC08-SS		
26 *	2660DC08-SS		
30 *	3060DC08-SS		

#5 Shaft & Pinion Gears



Available in stainless steel.
Shafts for all model sizes are of the dual wrench design.

CF8M Stainless Steel			
	150-1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Notes
2	260DC05C-SS		
3	360DC05C-SS	3250DC05C-SS	
4	460DC05C-SS	4250DC05C-SS	
6	660DC05C-SS	6250DC05C-SS	
8 *	860DC05C-SS	8250DC05C-SS	
10 *	1060DC05C-SS	10250DC05C-SS	
12 *	1260DC05C-SS	12250DC05C-SS	
14 *	1460DC05C-SS	14250DC05C-SS	
16 *	1660DC05C-SS	16250DC05C-SS	
18 *	2060DC05C-SS	20250DC05C-SS	
20 *	2060DC05C-SS	20250DC05C-SS	
24 *	2460DC05C-SS	24250DC05C-SS	
26 *	2660DC05C-SS	26250DC05C-SS	
30 *	3060DC05C-SS	30250DC05C-SS	

* Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.

VARIABLE BY MODEL SIZE

#90 Clip Style Valves Assembly



Available as standard in CF8M cast stainless steel.

	150-1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Notes
2	2150DC90-SS	2250DC90-SS	
3	3150DC90-SS	3250DC90-SS	
4	4150DC90-SS	4250DC90-SS	
6	6150DC90-SS	6250DC90-SS	
8	8150DC90-SS	8250DC90-SS	
10	10150DC90-SS	10250DC90-SS	
12	12150DC90-SS	12250DC90-SS	
14	14150DC90-SS		
16	1690DC90-SS		

Notes: Clipper assembly available up to and including 16".
Other materials available upon request

#3 Valve Strip



A564 Gr.630 Stainless Steel			
	150-1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Notes
2	260DC03A	2250DC03A	
3	360DC03A	3250DC03A	
4	460DC03A	4250DC03A	
6	660DC03A	6250DC03A	
8	860DC03A	8250DC03A	
10	1060DC03A	10250DC03A	
12	1260DC03A	12250DC03A	
14	1460DC03A		
16	1660DC03A		
18	2060DC03		
20	2060DC03		
24	2460DC03		
26	2660DC03		
30	3060DC03		

Note: 'A' suffix denotes clipper compatible component

#17 Valve Carrier

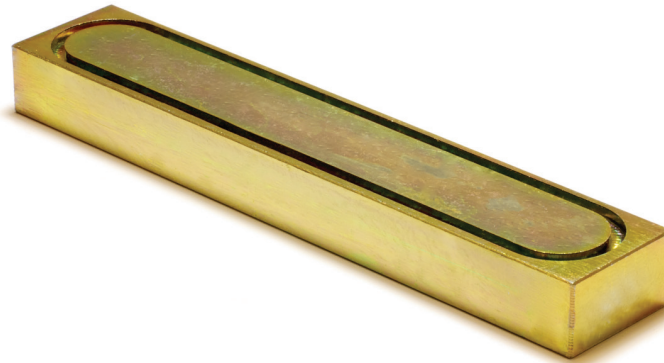


CF8M Stainless Steel		
Model Size	Part Number	Notes
2	260DC17B-SS	
3	360DC17B-SS	
4	460DC17B-SS	
6	660DC17B-SS	
8	860DC17B-SS	
10	1060DC17B-SS	
12	1260DC17B-SS	
14	1460DC17B-SS	
16	1660DC17B-SS	
18	2060DC17-SS	
20	2060DC17-SS	
24	2460DC17-SS	
26	2660DC17-SS	
30	3060DC17-SS	

Note: 'B' suffix denotes clipper compatible component

DBB, DUAL CHAMBER / 8"+ SINGLE CHAMBER FITTING PARTS

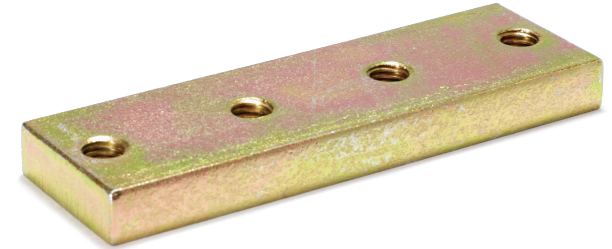
#9G Seal Bar



Available for 150 - 900 or 1500 ANSI ratings in 1018 YZP carbon steel.
Requires one seal bar O-ring (#9B).

150 - 900 ANSI		1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	260DC09G	2250DC09G	2250DC09G	
3	360DC09G	3150DC09G	3250DC09G	
4	460DC09G	4150DC09G	4250DC09G	
6	660DC09G	6150DC09G	6250DC09G	
8 ★	860DC09G	8250DC09G	8250DC09G	
10 ★	1060DC09G	10150DC09G	10250DC09G	
12 ★	1260DC09G	12250DC09G	12250DC09G	
14 ★	1460DC09G	14150DC09G		
16 ★	1660DC09G	16150DC09G		
18 ★	2060DC09G	Please Call		
20 ★	2060DC09G	Please Call		
24 ★	2460DC09G	Please Call		
26 ★	2660DC09G			
30 ★	3060DC09G			

#12 Clamping Bar



Available for 150 - 900 or 1500 ANSI ratings in 1018 YZP carbon steel.
Requires corresponding clamping bar screws (#11).

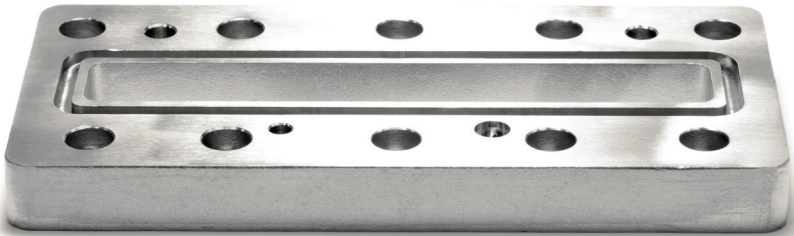
150 - 900 ANSI		1500/2500 ANSI	
Model Size	Part Number	Part Number	Notes
2	260DC12	2250DC12	
3	360DC12	3250DC12	
4	460DC12	4250DC12	
6	660DC12	6250DC12	
8 ★	860DC12	8250DC12	
10 ★	1060DC12	10250DC12	
12 ★	1260DC12	12250DC12	
14 ★	1460DC12	14250DC12	
16 ★	1660DC12	16250DC12	
18 ★	2060DC12	Please Call	
20 ★	2060DC12	Please Call	
24 ★	2460DC12	Please Call	
26 ★	2660DC12		
30 ★	3060DC12		

YZP = Yellow Zinc Plated
Other materials available upon request

★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.

VARIABLE BY MODEL SIZE

#18A Valve Seat - Grease Style

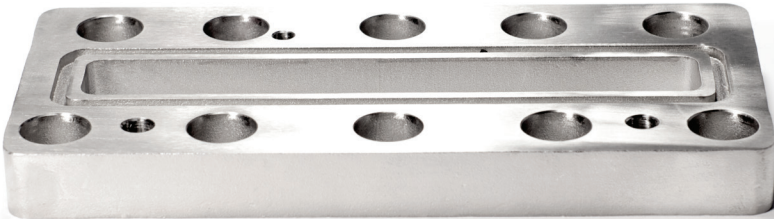


Available in 316/316L stainless steel. This unit incorporates a machined grease port for slide valve lubrication. Requires one valve seat O-ring (#18FH), valve seat grease port seal(s) (#18GH) and slide valve lubricant (#54). Suitable for 150-2500 ANSI ratings.

	150-900 ANSI	1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	260DC18A-SS	260DC18A-SS	2250DC18A-SS	
3	360DC18A-SS	360DC18A-SS	3250DC18A-SS	
* 4	460DC18A-SS	4150DC18A-SS	4250DC18A-SS	
6	660DC18A-SS	660DC18A-SS	6250DC18A-SS	
8	860DC18A-SS	860DC18A-SS	8250DC18A-SS	
10	1060DC18A-SS	1060DC18A-SS	10250DC18A-SS	
12	1260DC18A-SS	1260DC18A-SS	12250DC18A-SS	
14	1460DC18A-SS	1460DC18A-SS		
* 16	1660DC18A-SS	16150DC18A-SS		
18	2060DC18A-SS	2060DC18A-SS		
20	2060DC18A-SS	2060DC18A-SS		
24	2460DC18A-SS	2460DC18A-SS		
26	2660DC18A-SS			
30	3060DC18A-SS			

* Note: 4" 1500 & 16 1500 ANSI models require a specially-sized valve seat.

#18B Valve Seat - Soft Seat Style



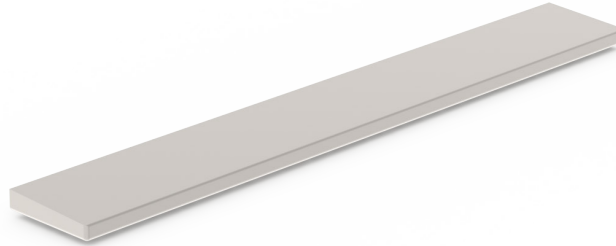
Available in 316/316L stainless steel. This unit incorporates a specially machined seal channel to help prevent O-ring dislocation. Requires two valve seat O-rings (#18FH). Suitable for 150-2500 ANSI ratings.

	150-900 ANSI	1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	260DC18B-SS	260DC18B-SS	2250DC18B-SS	
3	360DC18B-SS	360DC18B-SS	3250DC18B-SS	
* 4	460DC18B-SS	4150DC18B-SS	4250DC18B-SS	
6	660DC18B-SS	660DC18B-SS	6250DC18B-SS	
8	860DC18B-SS	860DC18B-SS	8250DC18B-SS	
10	1060DC18B-SS	1060DC18B-SS	10250DC18B-SS	
12	1260DC18B-SS	1260DC18B-SS	12250DC18B-SS	
14	1460DC18B-SS	1460DC18B-SS		
* 16	1660DC18B-SS	16150DC18B-SS		
18	2060DC18B-SS	2060DC18B-SS		
20	2060DC18B-SS	2060DC18B-SS		
24	2460DC18B-SS	2460DC18B-SS		
26	2660DC18B-SS			
30	3060DC18B-SS			

* Note: 4" 1500 & 16 1500 ANSI models require a specially-sized valve seat.

DBB, DUAL CHAMBER / 8"+ SINGLE CHAMBER FITTING PARTS

#3B Wedge Style Valve Strip

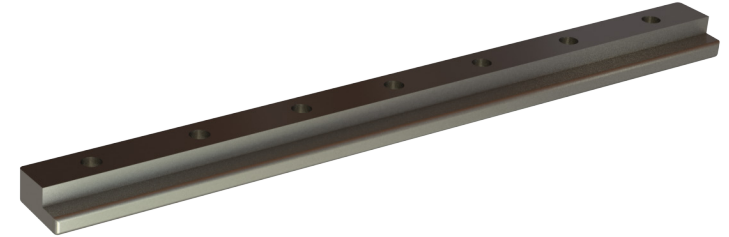


Available for 150-1500 & 2500 ANSI ratings in 316 SS.
(2500 ANSI available only up to 12")
Other materials available upon request.

150-1500 ANSI		2500 ANSI	Notes
Model Size	Part Number	Part Number	
2	290DB03B	2250DB03B	
3	390DB03B	3250DB03B	
4	490DB03B	4250DB03B	
6	690DB03B	6250DB03B	
8	890DB03B	8250DB03B	
10	1090DB03B	10250DB03B	
12	1290DB03B	12250DB03B	
14	1490DB03B		
16	1690DB03B		
18	2090DB03B		
20	2090DB03B		
24	2490DB03B		
26	2690DB03B		
30	3090DB03B		

Note: Fitted to DBB models only
Other materials available upon request

#17C Valve Stop Plate



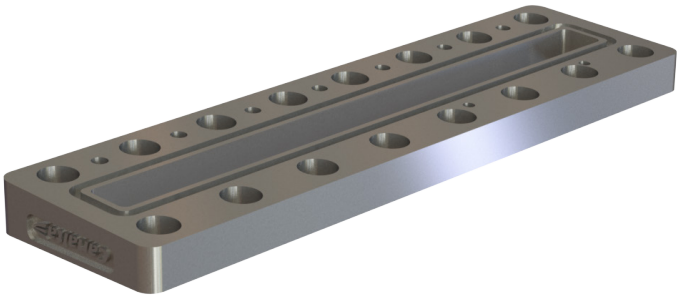
Available for 150-1500 & 2500 ANSI ratings in 316 SS.

150-1500 ANSI		2500 ANSI	Notes
Model Size	Part Number	Part Number	
2	290DB17C-SS	2250DB17C-SS	
3	390DB17C-SS	3250DB17C-SS	
4	490DB17C-SS	4250DB17C-SS	
6	690DB17C-SS	6250DB17C-SS	
8	890DB17C-SS	8250DB17C-SS	
10	1090DB17C-SS	10250DB17C-SS	
12	1290DB17C-SS	12250DB17C-SS	
14	1490DB17C-SS		
16	1690DB17C-SS		
18	2060DB17C-SS		
20	2060DB17C-SS		
24	2460DB17C-SS		
26	2660DB17C-SS		
30	3060DB17C-SS		

Note: Fitted to DBB models only
Other materials available upon request

VARIABLE BY MODEL SIZE

#18F Wedge Style Valve Seat



Available in 316/316L stainless steel. This unit incorporates a specially machined seal channel to help prevent O-ring dislocation. Requires two valve seat O-rings (#18FH). Suitable for 150-900 or 1500 & 2500 ANSI ratings.

150-900 ANSI		1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	290DB18F-SS	2150DB18F-SS	2250DB18F-SS	
3	390DB18F-SS	3150DB18F-SS	3250DB18F-SS	
4	490DB18F-SS	4150DB18F-SS	4250DB18F-SS	
6	690DB18F-SS	6150DB18F-SS	6250DB18F-SS	
8	890DB18F-SS	8150DB18F-SS	8250DB18F-SS	
10	1090DB18F-SS	10150DB18F-SS	10250DB18F-SS	
12	1290DB18F-SS	12150DB18F-SS	12250DB18F-SS	
14	1490DB18F-SS	14150DB18F-SS		
16	1690DB18F-SS	16150DB18F-SS		
18	1890DB18F-SS	18150DB18F-SS		
20	2090DB18F-SS	20150DB18F-SS		
24	2490DB18F-SS	24150DB18F-SS		
26	2690DB18F-SS			
30	3090DB18F-SS			

Note: Fitted to DBB models only. DBB is offered as soft seat only on the upper slide

DBB, DUAL CHAMBER / 8"+ SINGLE CHAMBER FITTING PARTS

#18FH Valve Seat O-ring



HNBR Rubber

150-2500 ANSI

Model Size	Part Number	Notes
2	O236-80H	
3	O243-80H	
4	O248-80H	
6	O258-80H	
8	O263-80H	
10	O268-80H	
12	O273-80H	
14	O277-80H	
16	O279-80H	
18	O282-80H	
20	O282-80H	
24	O387-80H	
26	O390-80H	
30	O392-80H	

Note: These part numbers also apply for item 18EH, "Valve Seat Bottom O-ring" for soft seat orifice fitting models.

#9B Seal Bar O-ring



HNBR Rubber

150 - 900 ANSI

1500 ANSI

2500 ANSI

Model Size	Part Number	Part Number	Part Number
2	O238-80H	O345-80H	O345-80H
3	O247-80H	O427-80H	O348-80H
4	O250-80H	O434-80H	O353-80H
6	O261-80H	O443-80H	O437-80H
8 ★	O265-80H	O445-80H	O445-80H
10 ★	O269-80H	O374-80H	O373-80H
12 ★	O275-80H	O378-80H	O378-80H
14 ★	O277-80H	Please Call	
16 ★	O280-80H	O456-80H	
18 ★	O283-80H	Please Call	
20 ★	O283-80H	Please Call	
24 ★	O388-80H	Please Call	
26 ★	O391-80H		
30 ★	O392-80H		

★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.

#4A Body O-ring



HNBR Rubber

150-900 ANSI

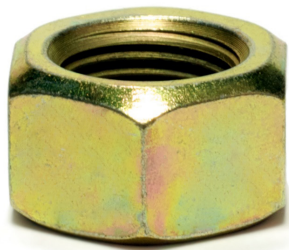
1500 ANSI

2500 ANSI

Model Size	Part Number	Part Number	Part Number
2	O257-80H	O362-80H	O362-80H
3	O365-80H	O364-80H	O365-80H
4	O367-80H	O370-80H	O368-80H
6	O373-80H	O449-80H	O371-80H
8	O378-80H	O453-80H	O377-80H
10	O380-80H	O380-80H	O380-80H
12	O456-80H	O456-80H	O381-80H
14	O460-80H	Please Call	
16	O465-80H	O466-80H	
18	O471-80H	Please Call	
20	O471-80H	Please Call	
24	O473-80H	Please Call	
26	O475-80H		
30	O4ID27-80H		

VARIABLE BY MODEL SIZE

#32 Hex Head Nuts



A194 Gr.2HM YZP CS - alloy bolting.
Other materials available upon request.

	150-900 ANSI	1500 ANSI	2500 ANSI
Model Size	Part Number		
2	DC32N58	DC32N34	DC32N1
3	DC32N58	DC32N34	DC32N1
4	DC32N58	DC32N34	DC32N118
6	DC32N34	DC32N1	DC32N114
8	DC32N34	DC32N118	DC32N114
10	DC32N34	DC32N118	DC32N114
12	DC32N34	DC32N118	DC32N114
14	DC32N34	Please Call	
16	DC32N1	Please Call	
18	DC32N1	Please Call	
20	DC32N1	Please Call	
24	DC32N1	Please Call	
26	Please Call		
30	DC32N118		

YZP = Yellow Zinc Plated

#33 Body Studs (Dual Chamber Meters Only)



A193 YZP CS - B7M alloy bolting. Other materials available upon request.

Short Studs				Long Studs		
	150-900 ANSI	1500 ANSI	2500 ANSI	150-900 ANSI	1500 ANSI	2500 ANSI
Model Size	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)
2	DC33S58-218 (11)	DC33S34-238 (2) DC33S34-300 (9)	DC33S1-258 (2) DC33S1-300 (9)	DC33S58-300 (3)	DC33S34-338 (3)	DC33S1-312 (3)
3	DC33S58-214 (14)	DC33S34-212 (2) DC33S34-300 (12)	DC33S1-234 (2) DC33S1-358 (11)	DC33S58-318 (1)	DC33S34-312 (1)	DC33S1-414 (2)
4	DC33S34-212 (14)	DC33S34-300 (2) DC33S34-358 (10)	DC33S118-338 (2)	DC33S34-312 (1)	DC33S34-418 (4)	DC33S118-414 (14)
6	DC33S34-300 (15)	DC33S1-414 (18)	DC33S114-414 (11)	DC33S34-338 (3)	N/A	DC33S114-600 (3)
8	DC33S34-338 (19)	DC33S118-458 (18)	DC33S114-400 (18)	N/A	N/A	N/A
10	DC33S34-312 (22)	DC33S118-458 (22)	DC33S114-412 (18)	N/A	N/A	N/A
12	DC33S34-334 (22)	DC33S118-458 (22)	DC33S114-412 (20)	N/A	N/A	N/A
14	DC33S34-334 (24)	Please Call		N/A	N/A	
16	DC33S1-418 (28)	Please Call		N/A	N/A	
18	DC33S1-500 (36)	Please Call		N/A	N/A	
20	DC33S1-500 (36)	Please Call		N/A	N/A	
24	DC33S1-458 (36)	Please Call		N/A	N/A	
26	Please Call			N/A		
30	DC33S118-612 (44)			N/A		

YZP = Yellow Zinc Plated

DBB, DUAL CHAMBER / 8"+ SINGLE CHAMBER FITTING PARTS

#33 Body Studs (DBB Meters Only)



A193 YZP CS - B7M alloy bolting. Other materials available upon request.

Short Studs					Long Studs			
	150-600 ANSI	900 ANSI	1500 ANSI	2500 ANSI	150-600 ANSI	900 ANSI	1500 ANSI	2500 ANSI
Model Size	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)
2	DC33S58-11516 (4) DC33S58-218 (4)	DC33S58-11516 (4) DC33S58-218 (4)	Please Call	Please Call	DC33S58-638 (7) DC33S58-714 (3)	DC33S58-638 (7) DC33S58-714 (3)	Please Call	Please Call
3	DC33S58-178 (4) DC33S58-214 (4)	DC33S58-178 (4) DC33S58-214 (4)	DC33S34-212 (4) DC33S34-238 (2) DC33S34-278 (2)	Please Call	DC33S58-612 (10) DC33S58-738 (1)	DC33S58-612 (10) DC33S58-738 (1)	DC33S34-838 (10) DC33S34-878 (1)	Please Call
4	DC33S34-212 (4) DC33S34-218 (4)	DC33S34-212 (4) DC33S34-218 (4)	DC33S1-278 (2) DC33S1-300 (4) DC33S1-312 (2)	DC33S118-300 (4) DC33S118-314 (2) DC33S118-418 (2)	DC33S34-712 (10) DC33S34-812 (1)	DC33S34-712 (10) DC33S34-812 (1)	DC33S1-934 (4) DC33S1-938 (8)	DC33S118-914 (12)
6	DC33S34-218 (4) DC33S34-300 (4)	DC33S34-218 (4) DC33S34-300 (4)	DC33S1-300 (4) DC33S1-378 (4)	DC33S114-300 (4) DC33S114-418 (4)	DC33S34-800 (11) DC33S34-838 (3)	DC33S34-800 (11) DC33S34-838 (3)	DC33S1-934 (14)	DC33S114-934 (7) DC33S114-1112 (3)
8	DC33S34-218 (4) DC33S34-338 (4)	DC33S34-218 (4) DC33S34-338 (4)	DC33S118-314 (4) DC33S118-414 (4)	Please Call	DC33S34-838 (15)	DC33S34-838 (15)	DC33S118-1014 (14)	Please Call
10	DC33S34-218 (4) DC33S34-312 (4)	DC33S34-218 (4) DC33S34-312 (4)	DC33S118-314 (4) DC33S118-418 (4)	DC33S114-300 (2) DC33S114-412 (2)	DC33S34-812 (18)	DC33S34-812 (18)	DC33S118-1018 (18)	DC33S114-912 (16)
12	DC33S78-218 (4) DC33S78-334 (4)	DC33S78-238 (4) DC33S78-378 (4)	DC33S118-314 (4) DC33S118-438 (4)	Please Call	DC33S78-834 (18)	DC33S78-900 (14)	DC33S118-1034 (18)	Please Call

YZP = Yellow Zinc Plated

#33 Body Studs (DBB Meters Only)				
				
A193 YZP CS - B7M alloy bolting. Other materials available upon request.				
Short Studs			Long Studs	
	150-600 ANSI	900 ANSI	150-600 ANSI	900 ANSI
Model Size	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)	Part Number (QTY)
14	DC33S34-218 (4) DC33S34-334 (4)	Please Call	DC33S34-900 (20)	Please Call
16	DC33S1-318 (4) DC33S1-378 (4)	Please Call	DC33S1-1000 (24)	Please Call
18	DC33S1-318 (6) DC33S1-434 (6)	DC33S1-318 (6) DC33S1-434 (6)	DC33S1-1118 (30)	DC33S1-1118 (30)
20	DC33S1-318 (6) DC33S1-434 (6)	Please Call	DC33S1-1118 (30)	Please Call
24	DC33S1-318 (6) DC33S1-412 (3)	Please Call	DC33S1-1158 (30)	Please Call

YZP = Yellow Zinc Plated

For sizes and ANSI classes not shown, please call your local Canalta office for more details.

DUAL CHAMBER / 8"+ SINGLE CHAMBER, DOUBLE BLOCK & BLEED FITTING PARTS

Item	Part Number	Material	Description	Notes
01	C60DC01SS	316 SS	Equalizer Valve Assembly 	
02 ★	C60DC02	Coated Cast Iron	Operating Wrench 	
3C ★★	C90DB03C-SS	316 SS	Valve Strip Gear Plate 	
3D	BCS32-0.190-0.250-SS-SC	316 SS	Gear Plate Screws 	
5A	C60DC05AL or R	Cast Aluminum	Slide Valve Indicator Plate (includes 10-24 * 3/4" Phillips Screw) 	*machine screw sold separately Part Number: CONS15 (1)
5B	C60DC05B	316 SS	Slide Valve Indicator Pointer 	*rivets sold separately Part Number: DS4-CS (2)
10	C60DC10SS	316 SS	Bleeder Valve 	
10H	CL60DC10B	A105N CS	Gate Valve - 1/2" 	
10P	PN0.5XXS-TP316L-12	316 SS	PIPE NIPPLE 	
11 ★	BSQNC-FT-0.500-13-1.250-CS-ZY	Case Hardened 4140 CS	Clamping Bar Screw (150-900 ANSI) 	
11 ★	BSQNC-FT-0.625-11-2.500-CS-ZY	Case Hardened 4140 CS	Clamping Bar Screw (1500 2500 ANSI) 	

YZP = Yellow Zinc Plated Carbon Steel

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)

COMMON TO ALL MODEL SIZES

Item	Part Number	Material	Description		Notes
15	C60DC15	316 SS	Valve Carrier Spring		
16	C60DC16	316 SS	Valve Carrier Guide (Sold individually)		
16	CL60DC16	316 SS	Valve Carrier Guides 16" and larger (Sold individually)		*corresponding screws Part Number: BCS28-0.250-0.500- SS-SC (2)
17A	C60DC17A	316 SS	Valve Carrier Stop Pin		
17D ★★	BCS28-0.250- 0.500-SS-SC	316SS	Stop Plate Screw		
18D	C60DC18D	18-8 SS	Valve Seat Screw		
18GH	O008-80H	HNBR	Valve Seat Grease Port Seal		
19 ★	C60DC19	1018 CS YZP	Bearing Plug		
19 ★	1260DC19A	1018 CS YZP	Extended Bearing Plug		
20 ★	C60DC20	1018 CS YZP	Stuffing Box		
20T ★★	C250DC20T	316 SS	Stuffing Box Extension (DBB only)		

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)

DUAL CHAMBER / 8"+ SINGLE CHAMBER, DOUBLE BLOCK & BLEED FITTING PARTS

Item	Part Number	Material	Description	Notes
22A ★	C60DC22A	316 SS	Stuffing Box Gasket 	
23	C60DC23SS	316 SS	Grease Gun Assembly 	
24	C60DC24	316 SS	Grease Check Valve 	
25 ★	C60DC25	1018 CS YZP	Packing Nut 	
25A-F ★	C60DC25S2	Teflon	Teflon Packing Sleeve Set 	
26 ★	C60DC26-SS	316 SS	Stuffing Box Gland 	
26A ★	O016-80H	HNBR	Inner Gland Seal 	
26B ★	O118-80H	HNBR	Outer Gland Seal 	
28E ★	C60DC28E-SS	316 SS	3/8" Bushing Retainer 	
28A ★	C60DC28A-SS	316 SS	3/4" Bushing Retainer 	
28B ★	C60DC28B-SS	316 SS	1 3/4" Bushing Retainer 	

YZP = Yellow Zinc Plated Carbon Steel

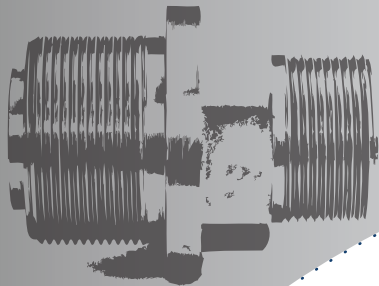
Other materials available upon request

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)

COMMON TO ALL MODEL SIZES

Item	Part Number	Material	Description		Notes
30	PP3/4-A105N	A105 CS, A350 CS or SS	Drain Plug - 3/4" NPT		
31	PP1/2-A105N	A105 CS, A350 CS or SS	Meter Tap & Drain Plug - 1/2" NPT		
35B ★	C60DC35B	Brass	External Shaft Roller (20" & 24")		
35B	2660DC35B	Brass	External Shaft Roller (26" -30")		
36 ★	*60DC36	316 SS	External Shaft		(* Replace with meter size 20, 24, 26, 28, or 30)
37C ★	C60DC37C	Brass	External Shaft Bushing (20" & 24")		
37C ★	2660DC37C	Brass	External Shaft Bushing (26"-30")		
41L(R) ★	*60DC41-L(R)	Cast Carbon Steel	Plate Carrier Guide - Left (Right)		(* Replace with meter size 20, 24, 26, 28, or 30)
41B ★	C60DC41B-SS	18-8 SS	Plate Carrier Guide Bolt		
42A	C60DC42A-SS	316 SS	Plate Carrier Stop		
42C	C60DC42C	Brass	Plate Carrier Stop Bushing		

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)



DUAL CHAMBER / 8"+ SINGLE CHAMBER, DOUBLE BLOCK & BLEED FITTING PARTS

Item	Part Number	Material	Description		Notes
42B ★	C60DC42B-SS	18-8 SS	Plate Carrier Stop Bolt		
44A ★	C60DC44A-SS	316 SS	Travel Brake Body		
44B	C60DC44B	Brass	Travel Brake Band (20" & 24")		
44B	2660DC44B	Brass	Travel Brake Band (26" - 30")		
44C ★	C60DC44C-SS	18-8 SS	Travel Brake Adjustment Bolt		
44D	C60DC44D	316 SS	Travel Brake Sleeve		
44E	C60DC44E-SS	304 SS	Travel Brake Hex Head Bolt		
50	CDC50	Color Etched 316 SS	Specification Plate		
52	CDC52	Color Etched 316 SS	Operating Plate		
53	CDC53	Stainless Steel	Soft Seat Warning Plate		

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)

COMMON TO ALL MODEL SIZES

Item	Part Number	Material	Description	Notes
54	C60DC54-340B	Grease	Slide Valve Lubricant 	*other temperature rated grease available upon request
55 ★	SSH-I0.500-20-1.500-SS-SC	18-8 SS	Eccentricity Alignment Pins 	
56 ★	C60DC40A	A105 CS	Eccentricity Alignment Plugs 	
58	SSH-I0.375-16-0.750-SS-SC	18-8 SS	Plate Carrier Alignment Screw (DC) 	
58 ★	SSH-I0.375-16-1.750-SS-SC	18-8 SS	Plate Carrier Alignment Screw (SC) 	
61	GPAS-8M4F-6B-SS	316 SS	Swivel Blow Out Preventor 	

- ★ Indicates parts also applicable to 8" and larger model sizes of the Single Chamber Orifice Fitting.
- ★★ Indicates parts only used on DBB meters
(Stainless Steel option available on most parts)



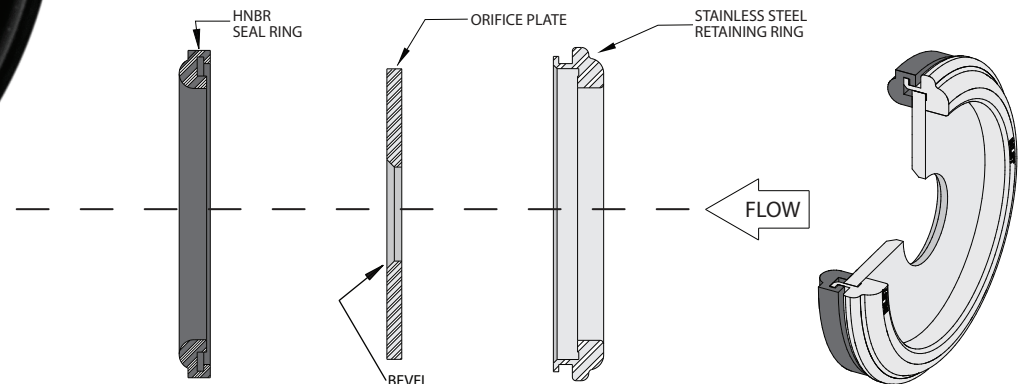
ORIFICE PLATES & PLATE SEALS

ORIFICE PLATES & PLATE SEALS

The **Type "K" Standard 2000 Edition Seal Assembly** is the standard seal supplied with all Canalta Orifice Fittings sizes 2" through 8". The assembly is comprised of a HNBR elastomer seal and stainless steel retainer ring. The single downstream seal function offers superior sealing capability while reducing seal damage during insertion. This design cuts in half the seals compressible material, resulting in less seal swell common in most applications. The durability of the stainless steel retainer ring leads to replacement costs of approximately 1/3 of other plate seals. Exact and repeatable concentricity is maintained with the metal to metal contact throughout the entire 360° circumference of the orifice plate to the plate carrier mechanism.

This unit is used with a .562" seal gap for fittings sized 2" through 6", and with a .688" seal gap for 8" fittings, meeting the 1992 and 2000 editions of AGA-3. Plate seal bypass tested down to 1" water column.

HNBR Elastomer Seal Ring			"K" Style Retainer Ring 316 Stainless Steel	
Model Size	Part Number	Notes	Part Number	Notes
2	2DC08H-00-HNBR-85D		2DC08K	
3	3DC08H-00-HNBR-85D		3DC08K	
4	4DC08H-00-HNBR-85D		4DC08K	
6	6DC08H-00-HNBR-85D		6DC08K	
8	8DC08H-00-HNBR-85D		8DC08K	

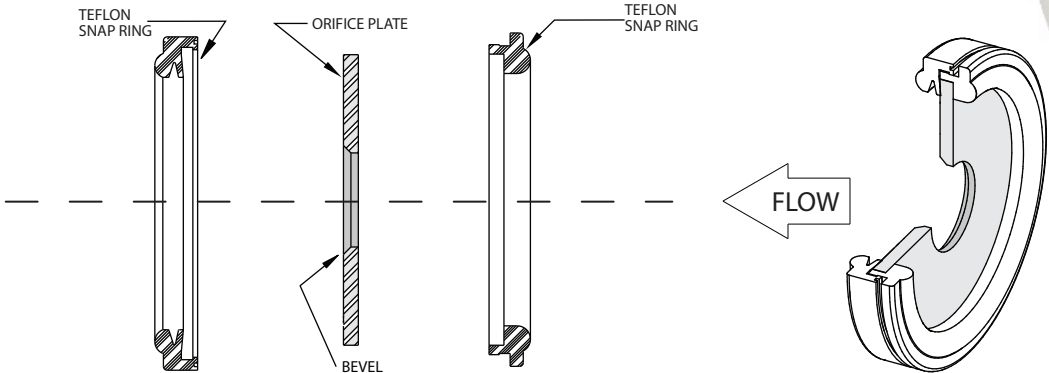


The **Teflon Snap Seal** provides positive plate sealing in the harshest of process environments. The two-piece design snaps over the orifice plate without the use of metal clips or retainers. A specially designed recess absorbs insertion pressures, minimizing permanent compression and distortion.

Teflon Snap Seal Set		
Model Size	Part Number	Notes
2	2DC08IJ-00-125-568	
3	3DC08IJ-00-125-562	
4	4DC08IJ-00-125-562	
6	6DC08IJ-00-125-562	
8	8DC08IJ-00-250-688	
10	10DC08IJ-00-250-688	
12	12DC08IJ-00-250-688	
14	14DC08IJ-00-250-688	
16	16DC08IJ-00-375-813	
18	18DC08IJ-00-375-813	
20	20DC08IJ-00-375-813	
24	24DC08IJ-00-500-875	
26	26DC08IJ-00-500-875	
28	28DC08IJ-00-500-875	
30	30DC08IJ-00-500-875	

The raised section adjacent to the recess creates a positive seal against the orifice plate, preventing bypass leakage. These two unique design features enhance seal performance while extending the life expectancy of the seal assembly.

Teflon Snap Seals are available for 2000 Edition seal gaps. 85 Edition snap and clip-style Teflon seals are also available for some sizes. Please contact our offices for more information.



ORIFICE PLATES & PLATE SEALS

Notched Seals are used only with notched plate carriers. Notched seals are available in the HNBR wrap seal version and also Teflon Snap seal assemblies. Exact and repeatable concentricity is maintained with the metal to metal contact throughout the entire 360° circumference of the orifice plate to the plate carrier mechanism.

This unit is used with a .562" seal gap for fittings sized 2" through 6", and with a .688" seal gap for 8" fittings, meeting the 1992 and 2000 editions of AGA-3. Plate seal bypass tested down to 1" water column.

Notched Teflon Snap Seal

Notched Wrap Seal



Notched Teflon Snap Seal

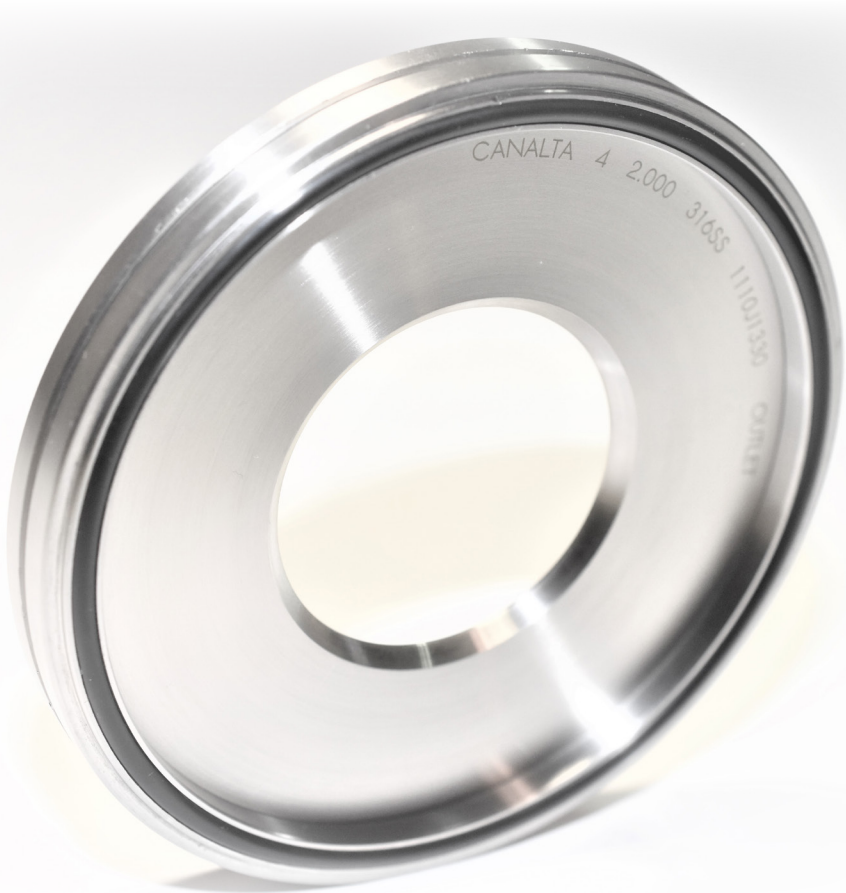
Model Size	Part Number	Notes
2	2DC08ST-00-125-562	
3	3DC08ST-00-125-562	
4	4DC08ST-00-125-562	
6	6DC08ST-00-125-562	
8	8DC08ST-00-250-562	

Notched HNBR Wrap Seal

Model Size	Part Number	Notes
2	2DC08R-HNBR-125-562-85D	
3	3DC08R-HNBR-125-562-85D	
4	4DC08R-HNBR-125-562-85D	
6	6DC08R-HNBR-125-562-85D	
8	8DC08R-HNBR-250-562-85D	

O-ring Style Seals are available in a Teflon Snap Seal and full Stainless Steel versions. With a combination of an internal o-ring seal and an external o-ring on the downstream face of the plate assembly, optimum sealing is acheived.

The Teflon O-ring snap seal is avaialble in sizes 2" through to 12". The full stainless steel version is available in sizes 2" through to 24".



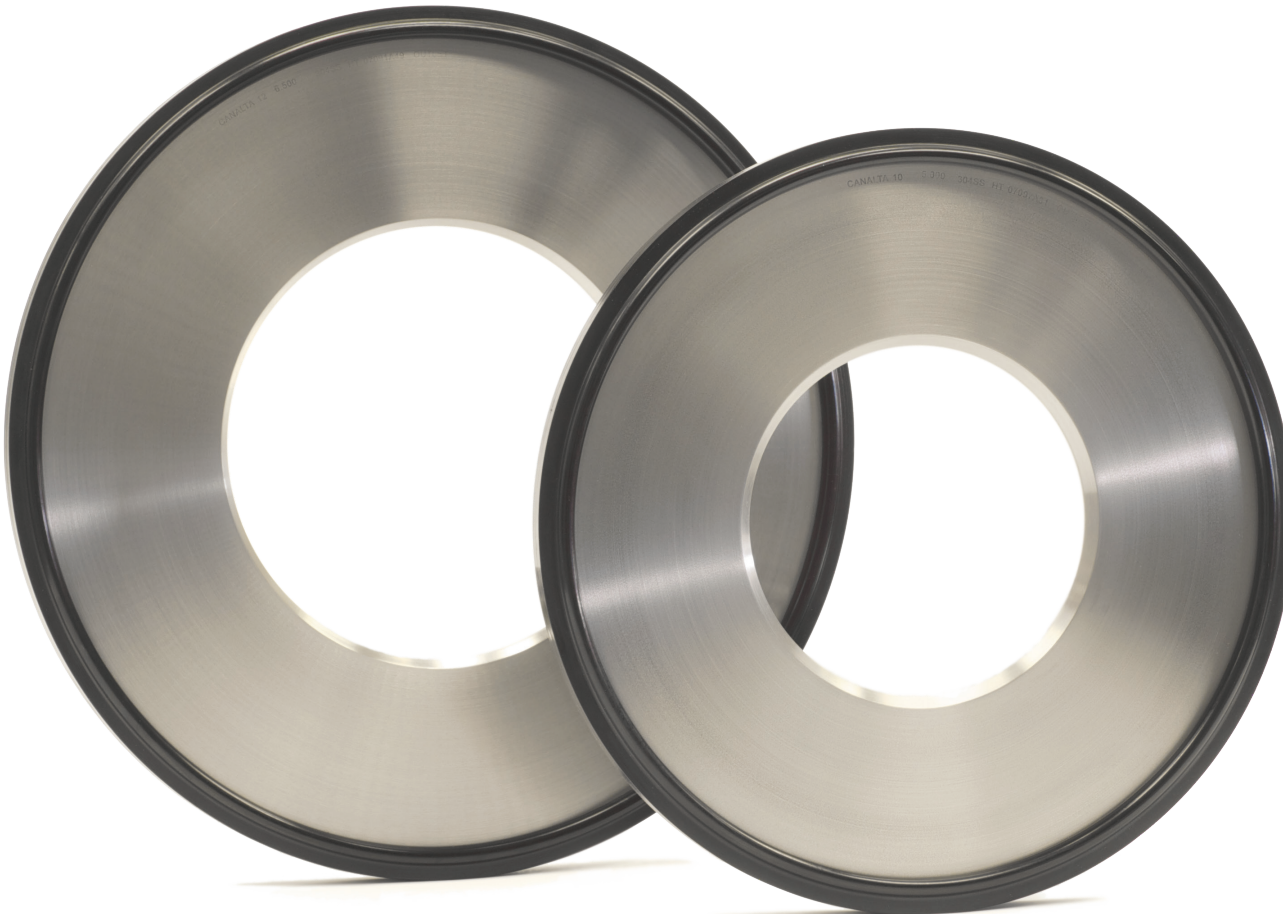
O-ring Style Seal Teflon			
Model Size	Part Number	O-ring	Notes
2	2DC08LM-00-125-562	O228-80H	
3	3DC08LM-00-125-562	O236-80H	
4	4DC08LM-00-125-562	O244-80H	
6	6DC08LM-00-125-562	O259-80H	
8	8DC08LM-00-250-688	O267-80H	
10	10DC08LM-00-250-688	O275-80H	
12	12DC08LM-00-250-688	O278-80H	

O-ring Style Seal - Stainless Steel			
Model Size	Part Number	O-ring	Notes
2	2DC08PQ-00-125-562	O228-80H	
3	3DC08PQ-00-125-562	O236-80H	
4	4DC08PQ-00-125-562	O244-80H	
6	6DC08PQ-00-125-562	O259-80H	
8	8DC08PQ-00-250-688	O267-80H	
10	10DC08PQ-00-250-688	O275-80H	
12	12DC08PQ-00-250-688	O278-80H	
14	14DC08PQ-00-250-688	Contact Factory	
16	16DC08PQ-00-375-813	O384-80H	
18	18DC08PQ-00-375-813	O388-80H	
20	20DC08PQ-00-500-875	O388-80H	
24	24DC08PQ-00-500-875	Contact Factory	

ORIFICE PLATES & PLATE SEALS

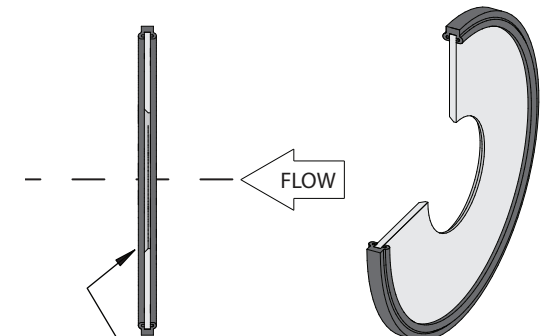
The **Bonded "FLEX" Seal** is designed with a unique "hollow core" recess, this seal has impressive expansion and contraction capabilities when compared to traditional solid rubber seals. The recess allows the seal to absorb insertion pressures, minimizing tearing, distortion and permanent compression. This design will also accommodate expansion and distortion in the seal gap when under pressure - a problem common to many large-sized fittings.

The 70 Durometer HNBR seal is adhesively bonded to the orifice plate, creating total and permanent contact between the plate and seal and preventing bypass leakage. These units are typically supplied as seal and orifice plate packages and are available for model sizes 10" and larger.



Bonded Flex Seal		
Model Size	Part Number	Notes
10	10DC08H-FLEX-HNBR	
12	12DC08H-FLEX-HNBR	
14	14DC08H-FLEX-HNBR	
16	16DC08H-FLEX-HNBR	
18	18DC08H-FLEX-HNBR	
20	20DC08H-FLEX-HNBR	
24	24DC08H-FLEX-HNBR	
26	26DC08H-FLEX-HNBR	
28	28DC08H-FLEX-HNBR	
30	30DC08H-FLEX-HNBR	

Bonded plates are available in various plate thicknesses. Please contact the sales department for more info



Clip Style Teflon Snap Seal

Canalta supplies a selection of legacy plate seals for situations in which direct and exact seal replacement is required or preferred. Models include two piece **Clip-style Teflon** seal assembly. Once assembled around the orifice plate the steel clip ensures that the teflon assembly does not become accidentally separated during plate removal.

Size and pipe schedule availability varies by model. Please contact us for more information.
(** denotes pipe schedule)

Clip-style Teflon



Clip-style Teflon Snap Seal		
Model Size	Part Number	Notes
2	2DC08FT-**-125-688	
3	3DC08FT-**-125-688	
4	4DC08FT-**-125-688	
6	6DC08FT-**-125-688	
8	8DC08FT-**-125-688	
10	10DC08FT-**-250-688	
12	12DC08FT-**-250-688	
14	14DC08FT-**-250-688	
16	16DC08FT-**-375-688	

We will also work with you to custom design and manufacture purpose-built seals for your unique or special

ORIFICE PLATES & PLATE SEALS

The **Wrap Around Seal** provides positive plate sealing. The one-piece design stretches over the orifice plate without the use of metal clips or retainers. A specially designed recess absorbs insertion pressures, minimizing permanent compression and distortion.

The raised section adjacent to the recess creates a positive seal against the orifice plate preventing bypass leakage. These two unique design features enhance seal performance while extending the life expectancy of the seal.

Available in 2" through to 12" and in Nitrile and HNBR materials to the required application.
(** denotes pipe schedule.)

Wrap Around Seal - HNBR		
Model Size	Part Number	Notes
2	2DC08FH-**-125-688-80D	
3	3DC08FH-**-125-688-80D	
4	4DC08FH-**-125-688-80D	
6	6DC08FH-**-125-688-80D	
8	8DC08FH-**-250-688-80D	
10	10DC08FH-**-250-688-80D	
12	12DC08FH-**-250-688-80D	



NOTES

ORIFICE PLATES & PLATE SEALS

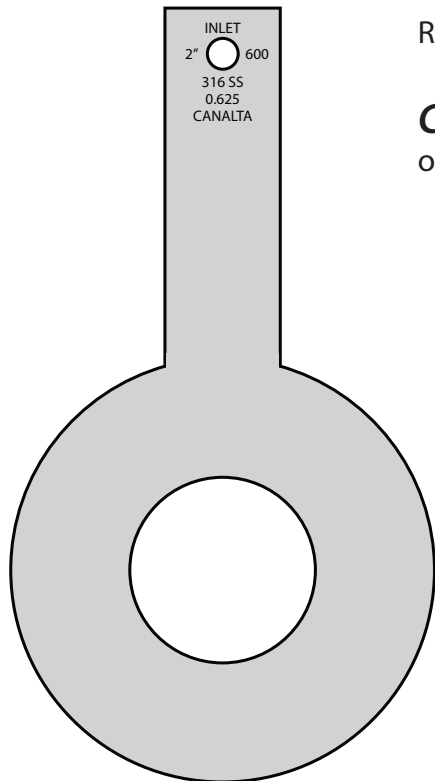
Canalta has been a trusted supplier of AGA-3 / API 14.3 and ISO 5167-1 compliant orifice plates for years. We stock a wide selection of standard concentric universal orifice plates for gas and liquid flow measurement in 316 stainless steel. These units are perfect for any Single or Dual Chamber Orifice Fitting.

Paddle plates for use with Orifice Flange Unions and orifice plates for special applications are available. Canalta also supplies orifice plates in exotic materials, such as Monel™, Inconel™ and Hastelloy™.

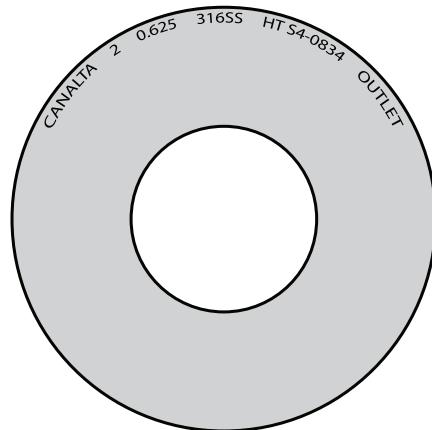
Canalta can provide comprehensive Orifice Plate Inspection Reports complete with calibration certificates and mill test reports.

Restriction Orifice plates are also offered as part of an engineered solution.

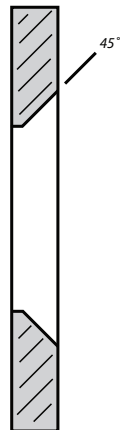
Contact us today to find out more about our competitive pricing and quick delivery times on all types of orifice plates.



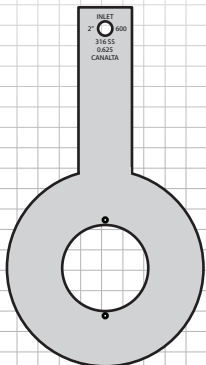
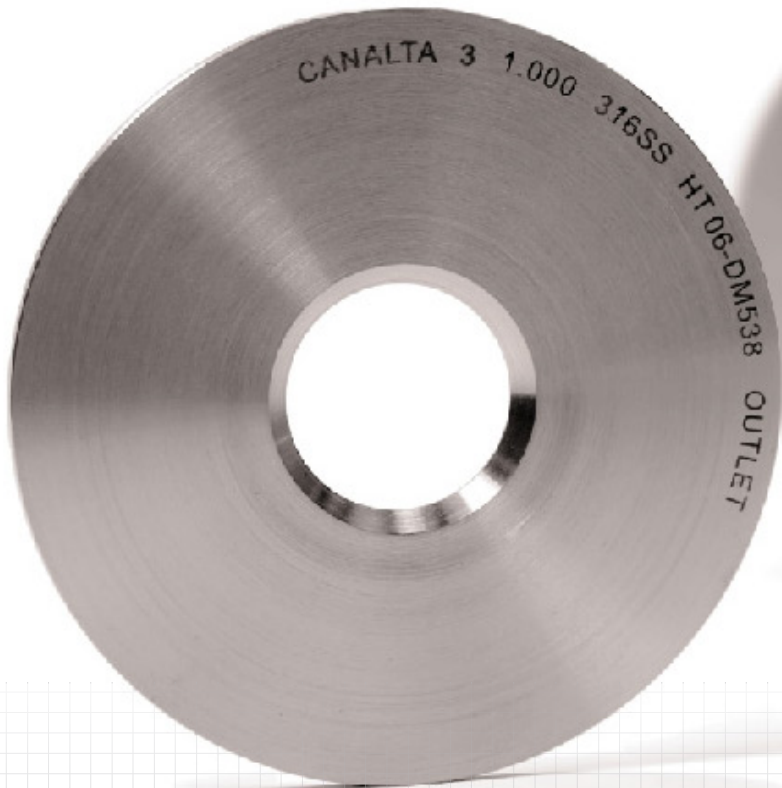
Concentric Paddle Plate



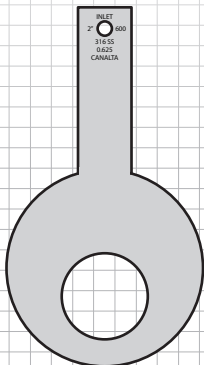
Concentric Universal Plate



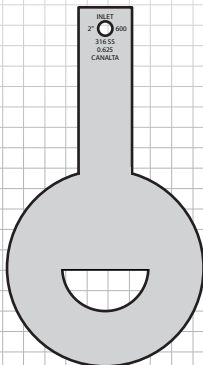
Bevel Profile



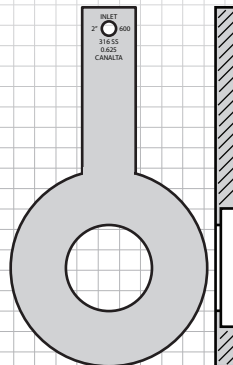
Vented Orifice Plate



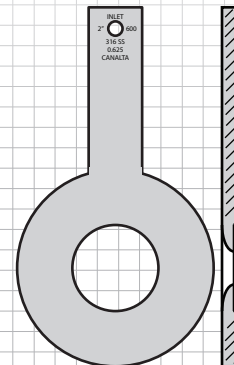
Eccentric Orifice Plate



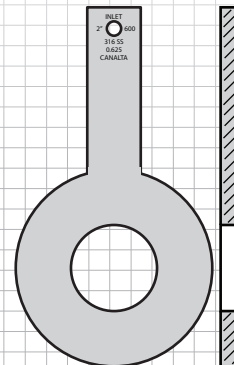
Segmental Orifice Plate



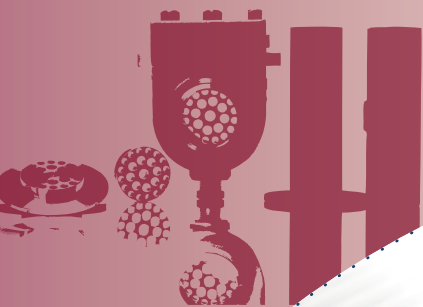
Counter-bored Orifice Plate



Quadrant-bored Orifice Plate



Concentric Restriction Plate



FLOW CONDITIONING SOLUTIONS



CONTOUR FLOW CONDITIONERS

ContourTM

Flow Conditioning Solutions

by **Canalta** 

ContourTM K5 and Z Flow Conditioners maximize orifice meter accuracy while significantly reducing upstream pipe length requirements. This common design fully develops the flow profile and helps to eliminate flow disturbances without creating a significant pressure drop. Accurate flow metering is possible in a host of line configurations, including multiple elbows in or out of plane, tee intersections and partially closed or nominally opened valves. Installation, maintenance and initial capital cost are easy and economical, and the resilient one-piece design ensures a long service life. Standard 316 stainless steel makes these flow conditioners suitable for all applications, including extremely corrosive environments.

ContourTM K5 Flow Conditioners are designed and manufactured to the exact geometries of the popular K-Lab / Nova design (CPA 50E®) which has achieved broad acceptance within the flow measurement industry. **ContourTM Z Flow Conditioners** include the 32-hole Zanker plate geometry. ContourTM Z Flow Conditioners are only available in flange style.

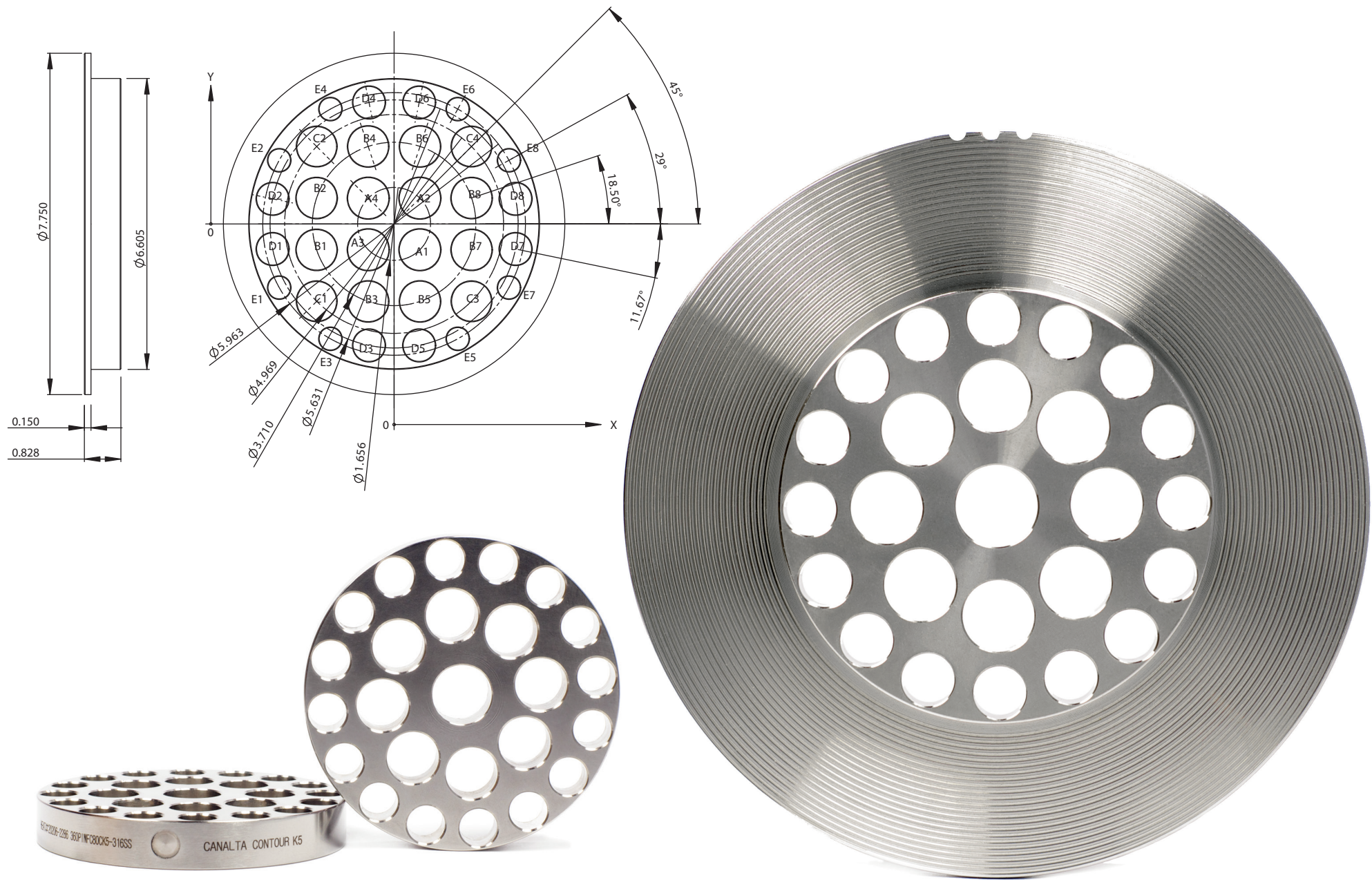
Flange-style Flow Conditioners are installed between two raised face or ring-type joint flanges upstream of the orifice plate. Available for pipe sizes 2" through 30" in all standard schedules, with custom schedules by special order.

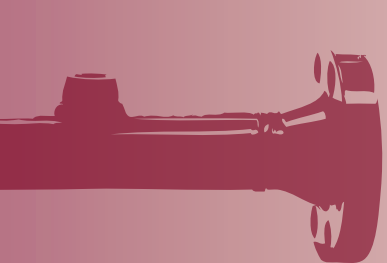
Pin-style Flow Conditioners are line mounted with a set pin in the wall of the upstream pipe. Available for pipe sizes 2" through 4" in all standard schedules, with custom schedules by special order.

Other types of Flow Conditioner also available include 'Zanker', 'Gallagher', 'Spearman'. Customer specific solutions also considered.

Contact one of our sales representatives today for full details, technical specifications and ordering information.

Note: CPA 50E is a registered trademark of Canada Pipeline Accessories Co. Ltd. Daniel Industries, Inc. (Zanker) and Canada Pipeline Accessories are not affiliated with Canalta Flow Measurement in any manner, nor have they reviewed, sanctioned or endorsed any products manufactured, reconditioned, sold or marketed by Canalta Flow Measurement.





FLANGE & PIN STYLE FLOW CONDITIONERS

Canalta Contour Flow Conditioners for installation upstream of the primary meter are available as Pin type (PIN), Raised Face (RF) and Ring Type Joint (RTJ) formats. Common Flow Conditioner types available are Contour™ and Zanker with custom schedules by special order.

Part Numbering format is as follows;

SIZE - Pin Type: 2", 3" or 4", Flanged Type: 2"-30" (larger sizes available upon request)

ANSI - 60 (150-900 ANSI)*, 150 (1500 ANSI), 250 (2500 ANSI)*

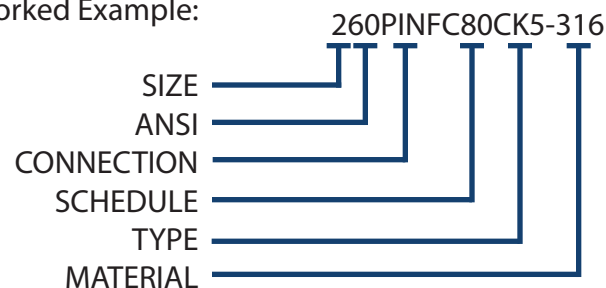
CON - Connection type - PIN, (available from 150-2500 ANSI) IG (Integral Gasket for 2" Contour only, 150-600 ANSI with part no. "260" and 900-2500 ANSI with part no. "2150")*, RF (Raised Face)*, RJ (Ring Type Joint)*

SCH - Pipe Schedule

TYPE - CONTOUR™ (CK5), ZANKER (ZAN)

MATERIAL - 316 SS, DUPLEX (2205), SUPER DUPLEX (2507)

Worked Example:



CONTOUR™ K5 - PIN TYPE		
Model Size	Part Number	Notes
2	260PINFC**CK5-316SS	
3	360PINFC**CK5-316SS	
4	460PINFC**CK5-316SS	

* Flange Type only

** Pipe Schedule

CONTOUR™ K5 FLOW CONDITIONER			ZANKER FLOW CONDITIONER	
	CONTOUR™ K5 RAISED FACE (RF)	CONTOUR™ K5 RING TYPE JOINT (RTJ)	ZANKER RAISED FACE (RF)	ZANKER RING TYPE JOINT (RTJ)
Model Size	Part Number	Part Number	Part Number	Part Number
2	2*IGFC**CK5-316SS	2*RJFC**CK5-316SS	260IGFC**ZAN-316SS	2*RJFC**ZAN-316SS
3	360RFFC**CK5-316SS	3*RJFC**CK5-316SS	360RFFC**ZAN-316SS	3*RJFC**ZAN-316SS
4	460RFFC**CK5-316SS	4*RJFC**CK5-316SS	460RFFC**ZAN-316SS	4*RJFC**ZAN-316SS
6	660RFFC**CK5-316SS	6*RJFC**CK5-316SS	660RFFC**ZAN-316SS	6*RJFC**ZAN-316SS
8	860RFFC**CK5-316SS	8*RJFC**CK5-316SS	860RFFC**ZAN-316SS	8*RJFC**ZAN-316SS
10	1060RFFC**CK5-316SS	10*RJFC**CK5-316SS	1060RFFC**ZAN-316SS	10*RJFC**ZAN-316SS
12	1260RFFC**CK5-316SS	12*RJFC**CK5-316SS	1260RFFC**ZAN-316SS	12*RJFC**ZAN-316SS
14	1460RFFC**CK5-316SS	14*RJFC**CK5-316SS	1460RFFC**ZAN-316SS	14*RJFC**ZAN-316SS
16	1660RFFC**CK5-316SS	16*RJFC**CK5-316SS	1660RFFC**ZAN-316SS	16*RJFC**ZAN-316SS
18	1860RFFC**CK5-316SS	18*RJFC**CK5-316SS	1860RFFC**ZAN-316SS	18*RJFC**ZAN-316SS
20	2060RFFC**CK5-316SS	20*RJFC**CK5-316SS	2060RFFC**ZAN-316SS	20*RJFC**ZAN-316SS
24	2460RFFC**CK5-316SS	24*RJFC**CK5-316SS	2460RFFC**ZAN-316SS	24*RJFC**ZAN-316SS
26	2660RFFC**CK5-316SS	26*RJFC**CK5-316SS	2660RFFC**ZAN-316SS	26*RJFC**ZAN-316SS
30	3060RFFC**CK5-316SS	30*RJFC**CK5-316SS	3060RFFC**ZAN-316SS	30*RJFC**ZAN-316SS

* ANSI Class

** Pipe Schedule



Contour™

Flow Conditioning Solutions

by **Canalta** 

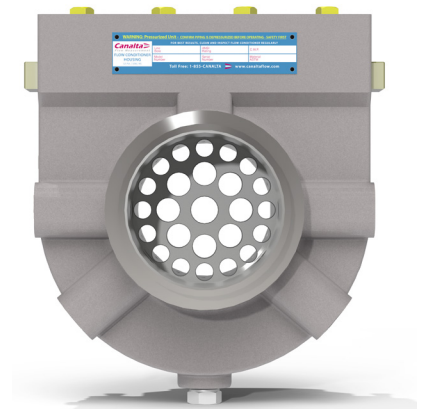
The Contour™ FCH (Flow Conditioner Housing) similar to the practicality of inspecting and changing an orifice plate, the Contour™ FCH (Flow Conditioner Housing) allows for regular inspections of the flow conditioner without breaking apart the flow line. The Contour™ FCH allows the operator to easily perform flow conditioner inspection and maintenance on the same regular schedule as the orifice plate. With this innovative, newly patented design, you can be sure that your flow profile has not been degraded by damage, blockage or residue accumulation.

All bore surfaces and internal dimensions within the housing are manufactured to strictly comply with the latest editions of AGA-3 and ISO-5167. The Contour™ FCH is effective for both ultrasonic and differential pressure custody transfer applications, where flow profile and measurement accuracy are critical.

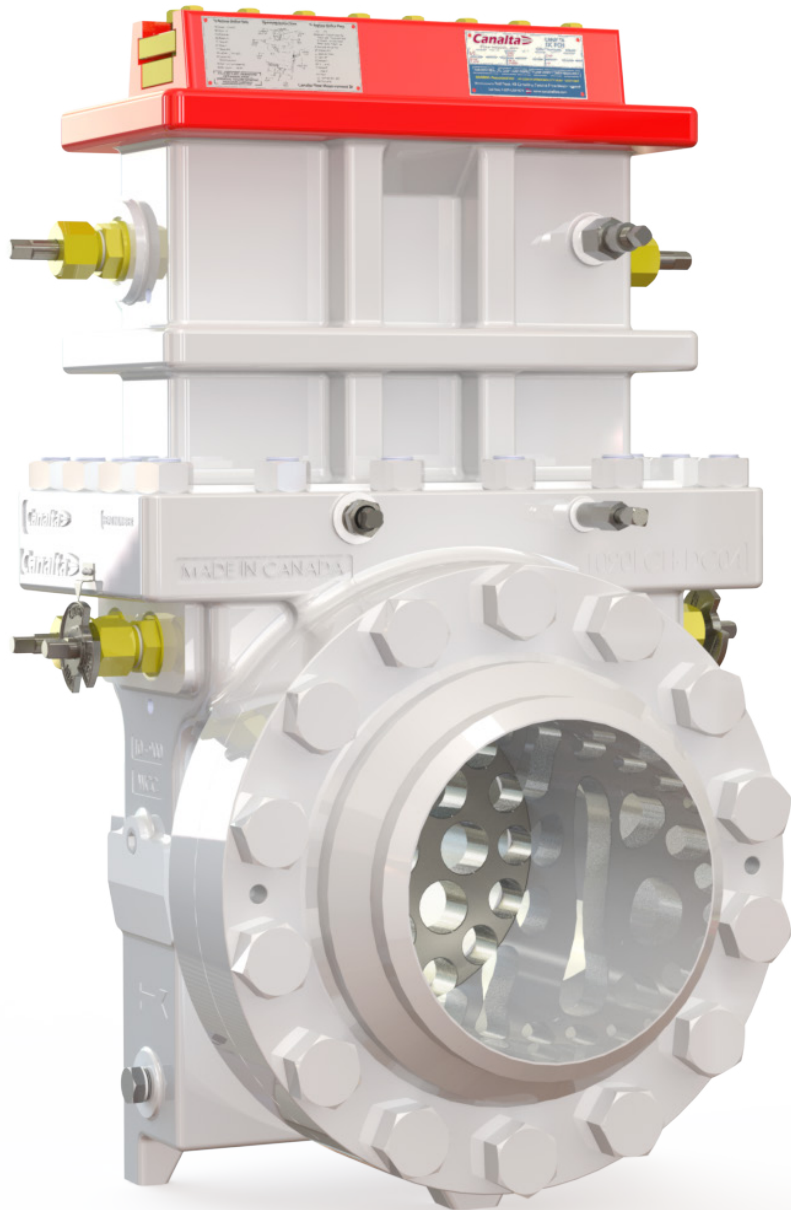
The body connects to the line upstream of the flow conditioning plate through an **integral body flange**. This design virtually eliminates flow disturbances caused by flange breaks, making your flow profile that much more reliable. Approved for 150 - 900 ANSI ratings, these integral body flanges also reduce costs by eliminating material and fabrication procedures.



Canalta's Contour FCH utilizes the new Contour™ K5+ and Z+ flow conditioners. These isolating flow conditioners incorporate a non-protruding HNBR seal around the downstream face to prevent bypass leakage and protect the integrity of your flow profile.



*Single Chamber Contour™ FCH
(US Patent 7, 806,145)*

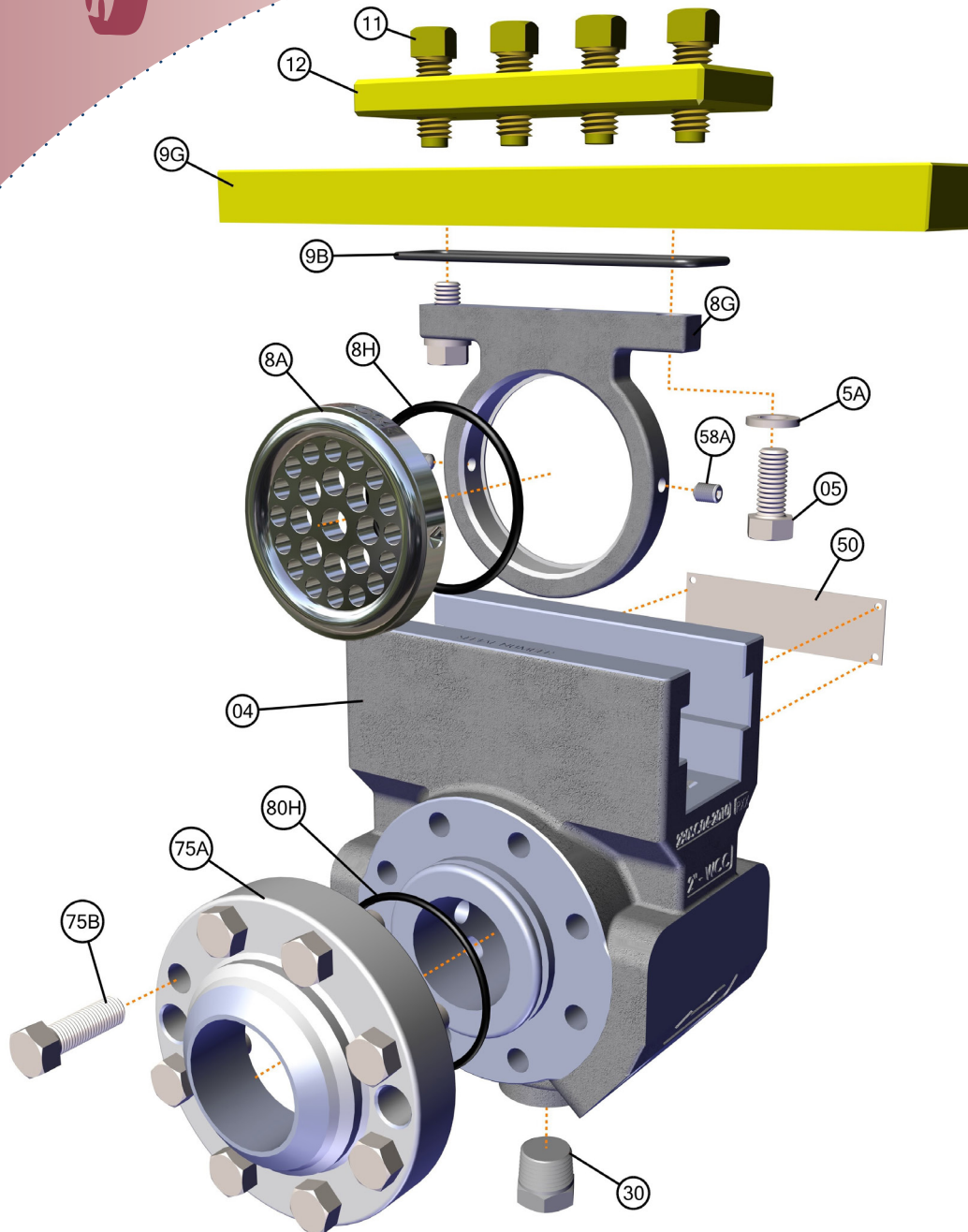


Dual Chamber Contour™ FCH
(US Patent 7, 806,145)

Key Features:

- Effective in all flow measurement applications where flow profile is critical for accuracy.
- Maintains flow conditioner alignment and positioning despite replacement or debris impact.
- Prevents bypass leakage.
- Allows for easy flow conditioner inspection, removal and replacement.
- Effective in both retrofits and new projects.
- Available in sizes 2" - 12" NPS.
- Can be fitted for standard or extreme corrosive service.
- Available in both single and dual chamber designs.

2-6" 150-900 ANSI SINGLE CHAMBER FLOW CONDITIONER HOUSING



Part	Qty.	Description
04	1	Flangeneck Body
05	2	Plate Carrier Bolt
5A	2	Lock Washer
8A	1	Flow Conditioner
8G	1	Plate Carrier
8H	1	Flow Conditioner Seal
9G	1	Seal Bar
9B	1	Seal Bar O-ring
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
30	1	Drain Plug
50	1	Specification Plate
51	1	Warning Plate
58A	2	Flow Conditioner Grub Screw
75A	1	Integral Flange
75B	A/R	Integral Flange Bolt
80H	1	Integral Flange O-ring

A/R = As Required per Model Size

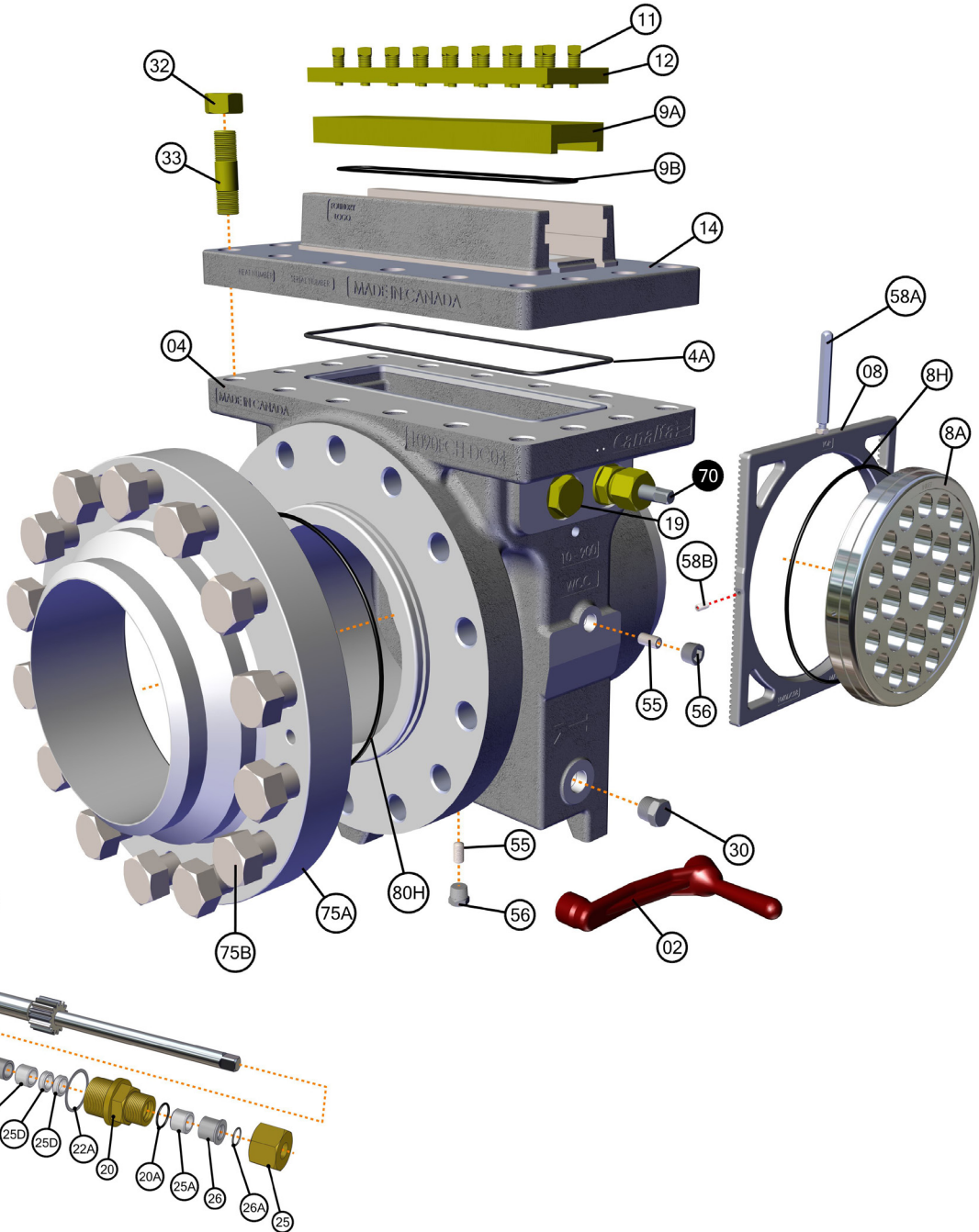
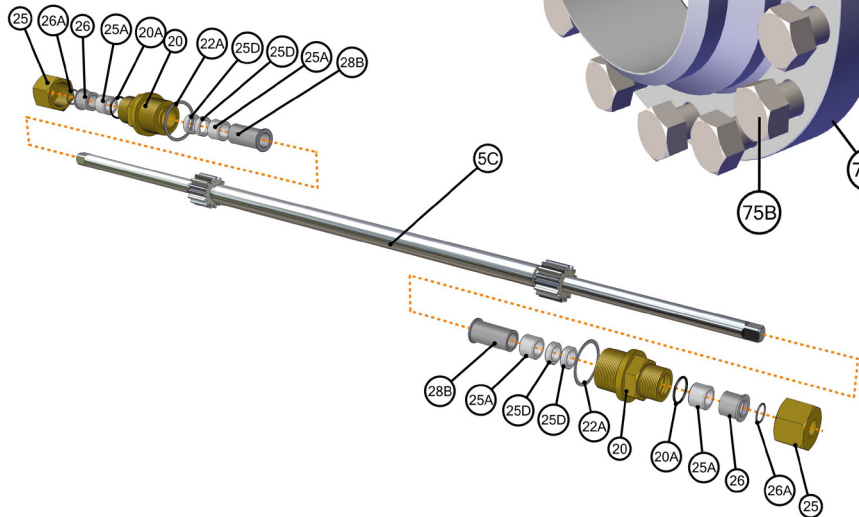
8-12" 150-900 ANSI SINGLE CHAMBER FLOW CONDITIONER HOUSING

Part	Qty.	Description
02	1	Operating Wrench
04	1	Flangeneck Body
4A	1	Body O-ring
5C	1	Dual Shaft & Pinion Gear
08	1	Plate Carrier
8A	1	Flow Conditioner Plate
8H	1	Flow Conditioner Seal
9B	1	Seal Bar O-ring
9G	1	Seal Bar
11	A/R	Clamping Bar Screw
12	1	Clamping Bar
14	1	Top Housing
19	2	Bearing Plug
20	2	Stuffing Box
20A	2	Stuffing Box Outer Gland Seal
22A	4	Stuffing Box Gasket
25	2	Packing Nuts
25A-F	A/R	Packing Sleeve
25S	1	Complete Packing Set
26	2	Stuffing Box Glands
26A	2	Stuffing Box Inner Gland Seal
28A	A/R	Bushing Retainer - Stuffing Box
28B	A/R	Bushing Retainer - Stuffing Box
30	2	Drain Plug
32	A/R	Hex Head Nut

Part	Qty.	Description
33	A/R	Body Stud
50	1	Specification Plate
55	3	Eccentricity Alignment Pin
56	3	Eccentricity Alignment Plug
58A	1	Plate Carrier Alignment Screw
58B	2	Flow Conditioner Grub Screw
70	1	Pinion Gear Assembly
75A	1	Integral Flange
75B	1	Integral Flange Bolts
80H	1	Integral Flange O-ring

A/R = As Required per Model Size

70 - GEAR SHAFT COMPONENTS



2-12" SINGLE CHAMBER FLOW CONDITIONER HOUSING

#8G Flow Conditioner Plate Carrier

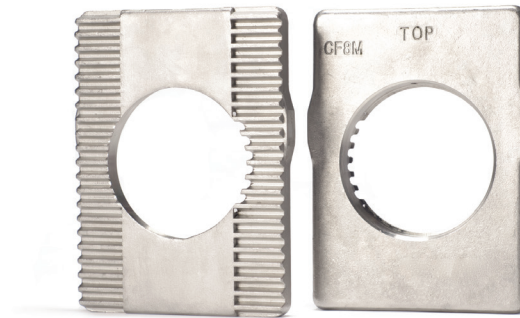


CF8M Stainless Steel

Model Size	Part Number	Notes
2	260SC08-92-SS	
3	360SC08-92-SS	
4	460SC08-92-SS	
6 *	660SC08-92-SS	

* Only applicable to 6" High Pressure models

#8 Flow Conditioner Plate Carrier



Downstream Face View

Upstream Face View

CF8M Stainless Steel

Model Size	Part Number	Notes
6	660DC08-92-SS	
8	860DC08-92-SS	
10	1060DC08-92-SS	
12	1260DC08-92-SS	

#9B FCH Seal Bar O-ring

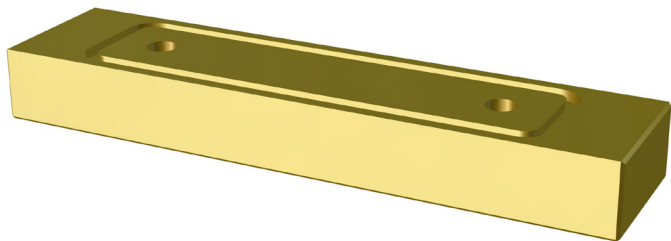


HNBR Rubber

Model Size	Part Number	Notes
2	O238-80H	
3	O243-80H	
4	O247-80H	
6	O259-80H	
8	O266-80H	
10	O271-80H	
12	O276-80H	

VARIABLE BY MODEL SIZE

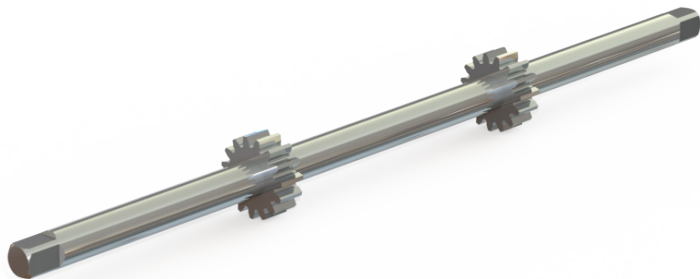
#9G FCH Seal Bar



Available for 150 - 900 or 1500/2500 ANSI ratings in 1018 YZP carbon steel.
Requires one seal bar O-ring (#9B).

150 - 900 ANSI		1500 & 2500 ANSI	
Model Size	Part Number	Part Number	Notes
2	290FCH-SC09G-2010	Please Call	
3	390FCH-SC09G-2010	Please Call	
4	490FCH-SC09G-2010	Please Call	
6	690FCH-SC09G-2010	Please Call	
8	890FCH-SC09G-2010	Please Call	
10	1090FCH-SC09G-2010	Please Call	
12	1290FCH-SC09G-2010	Please Call	

#5C Dual Shaft & Pinion Gears

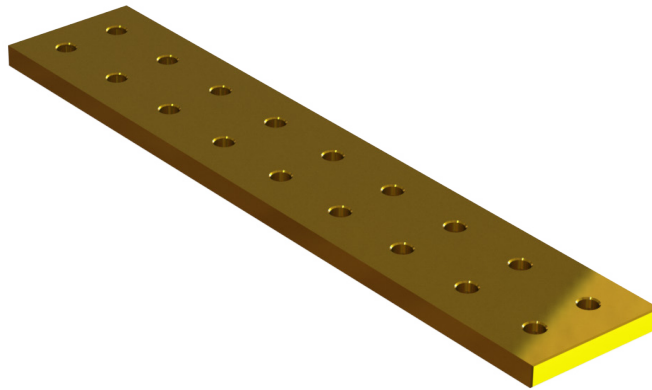


CF8M Stainless Steel		
Model Size	Part Number	Notes
6	660DC05C-SS	
8	860DC05C-SS	
10	1060DC05C-SS	
12	1260DC05C-SS	

Other materials available upon request.

2-12" SINGLE CHAMBER FLOW CONDITIONER HOUSING

#12 FCH Clamping Bar



Available for 150 - 2500 ANSI ratings in 1018 YZP carbon steel.
 Requires corresponding clamping bar screws (#11).

150 - 900 ANSI		1500 / 2500 ANSI	Notes
Model Size	Part Number	Part Number	
2	290FCH-SC12-2010	Please Call	
3	390FCH-SC12-2010	Please Call	
4	490FCH-SC12-2010	Please Call	
6	690FCH-SC12-2010	Please Call	
8	890FCH-SC12-2010	Please Call	
10	1090FCH-SC12-2010	Please Call	
12	1290FCH-SC12-2010	Please Call	

#8A Flow Conditioner



Suitable for SC and DC Flow Conditioner Housings.
 316 Stainless Steel as standard. Universal part numbers for 150-2500 ANSI.
 Other materials upon request.

Contour™ K5+ Flow Conditioner		
Model Size	Part Number	Notes
2	290CK508A-*	
3	390CK508A-*	
4	490CK508A-*	
6	690CK508A-*	
8	890CK508A-*	
10	1090CK508A-*	
12	1290CK508A-*	

Notes:

Zanker type flow conditioners are available for use in the Flow Conditioner Housings upon request.

* Pipe Schedule

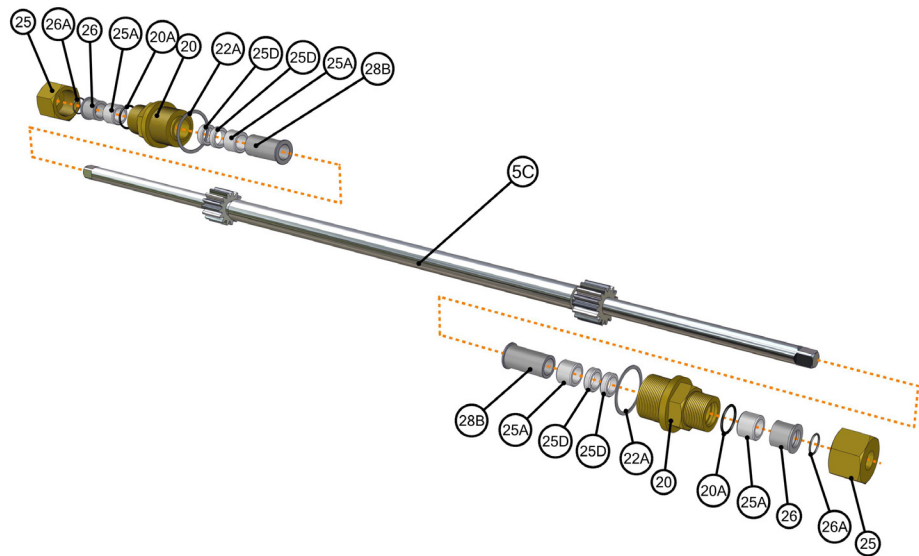
COMMON TO ALL MODEL SIZES

Item	Part Number	Material	Description	Notes
05	C60SC05	316 SS	Plate Carrier Bolt 	
5A	C60SC05A	316 SS	Plate Carrier Lock Washer 	
11 ★	BSQNC-FT-0.500-13-1.250-CS-ZY	Case Hardened 4140 CS	Clamping Bar Screw (150-900 ANSI) 	
11 ★	BSQNC-FT-0.625-11-2.500-CS-SC	Case Hardened 4140 CS	Clamping Bar Screw (1500 /2500 ANSI) 	
30	PP3/4-A105N or PP3/4-A350	A105 CS	Drain Plug - 3/4" NPT 	
31	PP1/2-A105N or PP1/2-A350	A105 CS	Drain Plug - 1/2" NPT 	
50	CSC50	Color Etched 316 SS	Specification Plate 	

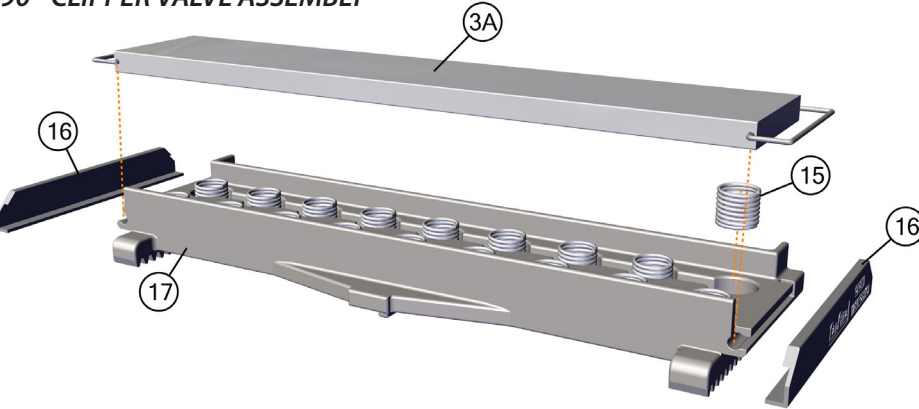
(Stainless Steel option available on most parts)

[illegible]

70 - GEAR SHAFT COMPONENTS



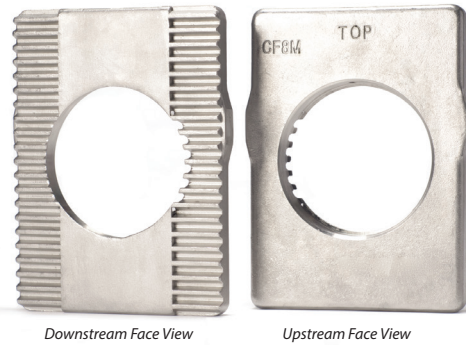
90 - CLIPPER VALVE ASSEMBLY



Part	Qty.	Description	Part	Qty.	Description
01	1	Equalizer Valve Assembly	18FH	1	Valve Seat Top O-ring
02	1	Operating Wrench	18GH	A/R	Valve Seat Grease Port Seal
3A	1	Valve Strip	20	6	Stuffing Box
04	1	Flangeneck Body	20A	6	Stuffing Box Outer Gland Seal
4A	1	Body O-ring	22A	6	Stuffing Box Gasket
5C	3	Dual Shaft & Pinion Gear	23	1	Grease Gun Assembly
5A	2	Slide Valve Indicator Plate	24	1	Double Ball Grease Check Valve
5B	2	Slide Valve Indicator Pointer	25	3	Packing Nuts
08	1	Plate Carrier	25A-F	A/R	Packing Sleeve
8A	1	Flow Conditioner	25S	2	Complete Packing Set
8H	1	Flow Conditioner O-Ring	26	6	Stuffing Box Glands
9B	1	Seal Bar O-ring	26A	3	Stuffing Box Inner Gland Seal
9G	1	Seal Bar with O-ring Groove	28A	A/R	Bushing Retainer - Stuffing Box
10	1	Bleeder Valve	28B	A/R	Bushing Retainer - Stuffing Box
11	A/R	Clamping Bar Screw	30	2	Drain Plug
12	1	Clamping Bar	32	A/R	Body Hex Nut
14	1	Top Housing	33	A/R	Body Stud
15	A/R	Valve Carrier Spring	50	1	Operating Instruction Plate
16	2	Valve Carrier Guide	52	1	Specification Plate
17B	1	Valve Carrier	54	A/R	Slide Valve Lubricant
17A	2	Valve Carrier Stop Pin	55	3	Eccentricity Alignment Pin
18A	1	Valve Seat (Grease type)	56	3	Eccentricity Alignment Plug
18D	A/R	Valve Seat Screw	58	1	Plate Carrier Alignment Screw
			75A	A/R	Integral Flange
			75B	A/R	Integral Flange Bolt
			80H	1	Integral Flange O-ring

A/R = As Required per Model Size

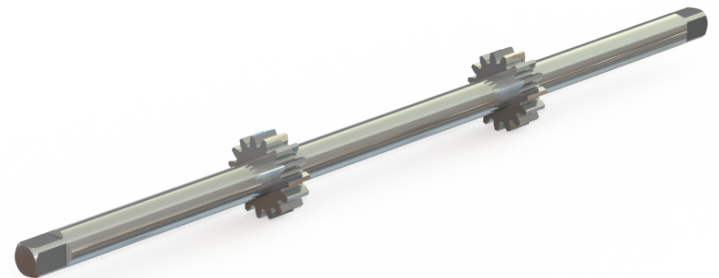
#08 Plate Carrier



CF8M Stainless Steel

Model Size	Part Number	Notes
2	260DC08-92-SS	
3	360DC08-92-SS	
4	460DC08-92-SS	
6	660DC08-92-SS	
8	860DC08-00-625-SS	
10	1060DC08-SS	
12	1260DC08-SS	

#5C Dual Shaft & Pinion Gears



CF8M Stainless Steel

Model Size	Part Number	Notes
2	260DC05C-SS	
3	360DC05C-SS	
4	460DC05C-SS	
6	660DC05C-SS	
8	860DC05C-SS	
10	1060DC05C-SS	
12	1260DC05C-SS	

VARIABLE BY MODEL SIZE

#90 Clip Style Valve Assembly

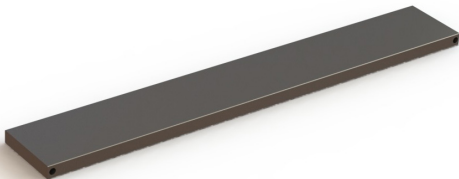


Other materials available upon request.

CF8M Stainless Steel		
Model Size	Part Number	Notes
2	2150DC90-SS	
3	3150DC90-SS	
4	4150DC90-SS	

Note: 'Clipper' style valve only on 2", 3" and 4".

#3A Valve Strip



A564 Gr.630 Stainless Steel		
Model Size	Part Number	Notes
2	260DC03A	
3	360DC03A	
4	460DC03A	
6	690FCH-DC03A	
8	890FCH-DC03A	
10	1090FCH-DC03A	
12	1290FCH-DC03A	

Note: 'A' suffix denotes clipper compatible component

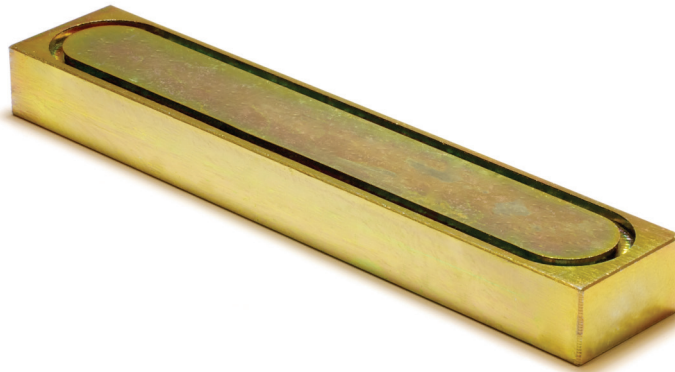
#17B Valve Carrier



CF8M Stainless Steel		
Model Size	Part Number	Notes
2	260DC17B-SS	
3	360DC17B-SS	
4	460DC17B-SS	
6	690FCH-DC17BSS	
8	890FCH-DC17BSS	
10	1090FCH-DC17BSS	
12	1290FCH-DC17BSS	

Note: 'B' suffix denotes clipper compatible component

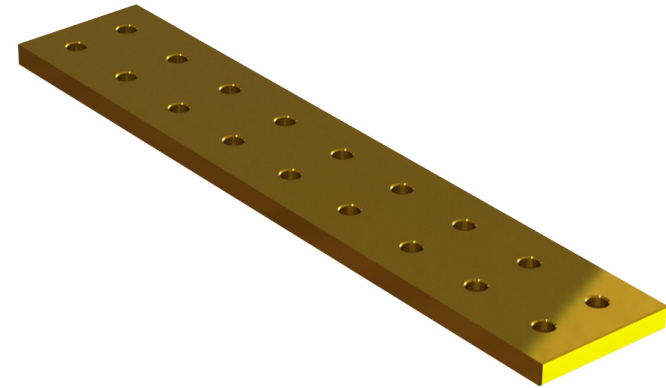
#9G Seal Bar



Available for 150 - 2500 ANSI ratings in 1018 YZP carbon steel. Requires one seal bar O-ring (#9B).

150 - 900 ANSI		1500 ANSI	2500 ANSI	Notes
Model Size	Part Number	Part Number	Part Number	
2	260DC09G	2250DC09G	2250DC09G	
3	360DC09G	3150DC09G	3250DC09G	
4	460DC09G	4150DC09G	4250DC09G	
6	690FCH-DC09G	Please Call	Please Call	
8	890FCH-DC09G	Please Call	Please Call	
10	1090FCH-DC09G	Please Call	Please Call	
12	1290FCH-DC09G	Please Call	Please Call	

#12 Clamping Bar



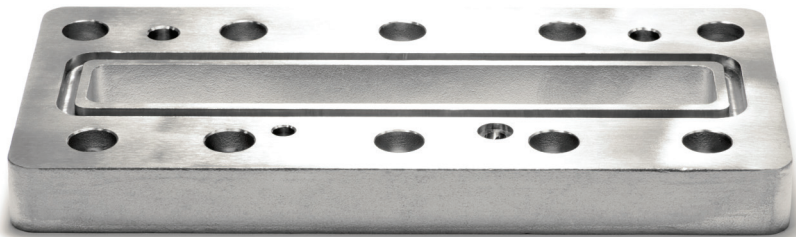
Available for 150 - 900 or 1500 ANSI ratings in 1018 YZP carbon steel. Requires corresponding clamping bar screws (#11).

150 - 900 ANSI		1500 / 2500ANSI	Notes
Model Size	Part Number	Part Number	
2	260DC12	2250DC12	
3	360DC12	3250DC12	
4	460DC12	4250DC12	
6	690FCH-DC12	Please Call	
8	890FCH-DC12	Please Call	
10	1090FCH-DC12	Please Call	
12	1290FCH-DC12	Please Call	

* 1500 & 2500 ANSI FCH models only available in 2"-4". For line sizes outside of this range please contact the fac-

VARIABLE BY MODEL SIZE

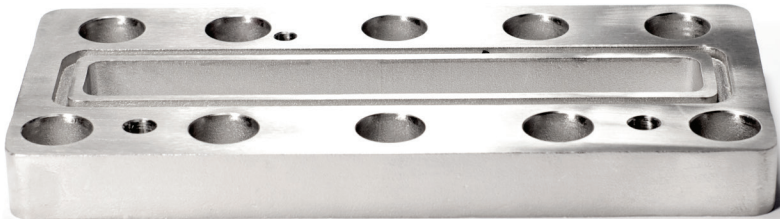
#18A Valve Seat - Grease Style



This unit incorporates a machined grease port for slide valve lubrication. Requires one valve seat O-ring (#18FH), one valve seat grease seal (#18GH) and slide valve lubricant (#54).

CF8M Stainless Steel				
	150 -900 ANSI	1500 ANSI	2500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	260DC18A-SS	260DC18A-SS	2250DC18A-SS	
3	360DC18A-SS	360DC18A-SS	3250DC18A-SS	
4	460DC18A-SS	4150DC18A-SS	4250DC18A-SS	
6	690FCH-DC18A-SS	Please Call	Please Call	
8	890FCH-DC18A-SS	Please Call	Please Call	
10	1090FCH-DC18A-SS	Please Call	Please Call	
12	1290FCH-DC18A-SS	Please Call	Please Call	

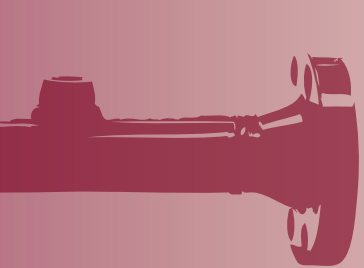
#18B Valve Seat - Soft Seat Style



This unit incorporates a specially machined seal channel to help prevent O-ring dislocation. Requires two valve seat O-rings (#18FH).

CF8M Stainless Steel				
	150 -900 ANSI	1500 ANSI	1500 ANSI	
Model Size	Part Number	Part Number	Part Number	Notes
2	260DC18B-SS	260DC18B-SS	2250DC18B-SS	
3	360DC18B-SS	360DC18B-SS	3250DC18B-SS	
4	460DC18B-SS	4150DC18B-SS	4250DC18B-SS	
6	690FCH-DC18B-SS	Please Call	Please Call	
8	890FCH-DC18B-SS	Please Call	Please Call	
10	1090FCH-DC18B-SS	Please Call	Please Call	
12	1290FCH-DC18B-SS	Please Call	Please Call	

* 1500 & 2500 ANSI FCH models only available in 2"-4". For line sizes outside of this range please contact the factory



#4A Body O-ring



HNBR Rubber

	150 - 900 ANSI	1500 ANSI	2500 ANSI
Model Size	Part Number	Part Number	Part Number
2	O257-80H	O362-80H	O362-80H
3	O365-80H	O364-80H	O0365-80H
4	O367-80H	O370-80H	O36880H
6	O373-80H	Please Call	Please Call
8	O378-80H	Please Call	Please Call
10	O378-80H	Please Call	Please Call
12	O381-80H	Please Call	Please Call

#18FH Valve Seat O-ring



HNBR Rubber

150-2500 ANSI		
Model Size	Part Number	Notes
2	O236-80H	
3	O243-80H	
4	O248-80H	
6	O259-80H	
8	O266-80H	
10	O271-80H	
12	O275-80H	

#9B Seal Bar O-ring




HNBR Rubber

	150 - 900 ANSI	1500 ANSI	2500 ANSI
Model Size	Part Number	Part Number	Part Number
2	O238-80H	O345-80H	O345-80H
3	O247-80H	O427-80H	O348-80H
4	O250-80H	O434-80H	O353-80H
6	O260-80H	Please Call	Please Call
8	O266-80H	Please Call	Please Call
10	O271-80H	Please Call	Please Call
12	O276-80H	Please Call	Please Call

* 1500 & 2500 ANSI FCH models only available in 2"-4". For line sizes outside of this range please contact the fac-

VARIABLE BY MODEL SIZE

#8H Flow Conditioner O-ring		
		
HNBR Rubber		
Model Size	Part Number	Notes
2	O228-80H	
3	O235-80H	
4	O242-80H	
6	O259-80H	
8	O369-80H	
10	O378-80H	
12	O381-80H	

#80H Flange Adaptor O-ring		
		
HNBR Rubber		
Model Size	Part Number	Notes
2	O229-80H	
3	O238-80H	
4	O246-80H	
6	O363-80H	
8	O371-80H	
10	O378-80H	
12	O381-80H	

Applies to SC and DC FCH models
(2-4" DC FCH Models do not come with Flange Adaptor)

#33 Body Studs				
				
A193 YZP CS - B7M alloy bolting.				
Short Studs			Long Studs	
Model Size	Part Number (QTY)	Notes	Part Number (QTY)	Notes
2	DC33S58-218-BS (11)		DC33S58-300-BS (3)	
3	DC33S58-214-BS (14)		DC33S58-318-BS (1)	
4	DC33S34-212-BS (14)		DC33S34-312-BS (1)	
6	DC33S34-300-BS (15)		DC33S34-338-BS (3)	
8	DC33S34-314-BS (21)		N/A	
10	DC33S1-334-BS (18)		N/A	
12	DC33S1-334-BS (18)		N/A	

YZP = Yellow Zinc Plated

For all other replacement parts refer to the 2-12" Dual Chamber Orifice Fitting Parts

Contour™



Flow Conditioning Solutions

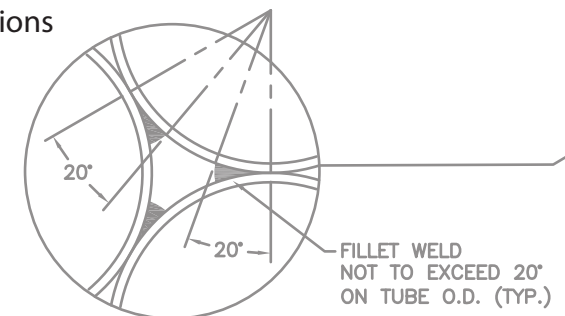
by **Canalta** ➤

Contour™ Vane Flow Straighteners are available in the traditional 1998 uniform concentric 19-tube bundle configuration. Sized and assembled to AGA 3 / API 14.3 and ISO 5167-1 specifications, these straightening vanes are effective in aiding the removal of flow swirl and turbulence caused by upstream piping arrangements. Available in 316 stainless steel as standard, the Contour™ Vane Flow Straightener is suitable for most process environments.

Flange-style straightening vanes are installed between two raised face or RTJ flanges upstream of the orifice plate. Available for pipe sizes 2" through 30" in all standard schedules, with custom schedules by special order.

Pin-style straightening vanes are line mounted with a 3/8" x 3/4" (16 UNC) set pin in the wall of the upstream pipe. Available for pipe sizes 2" through 30" in all standard schedules, with custom schedules by special order.

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TUBE WELD DETAIL
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TYP. AT ALL POINTS OF INTERSECTION
BOTH ENDS

