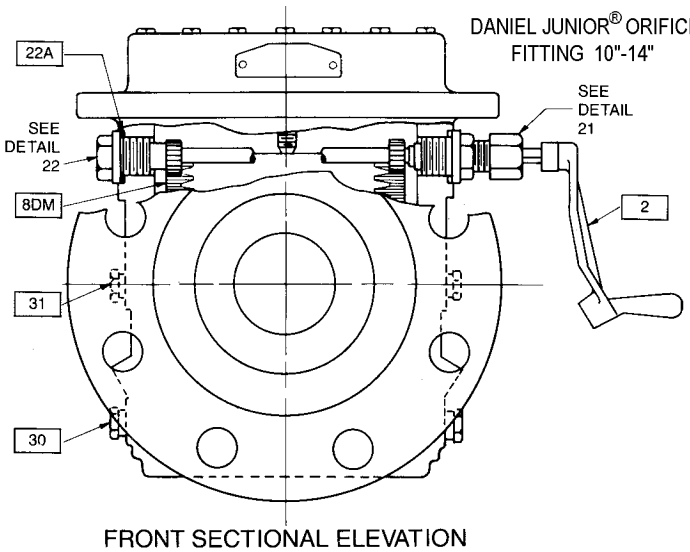
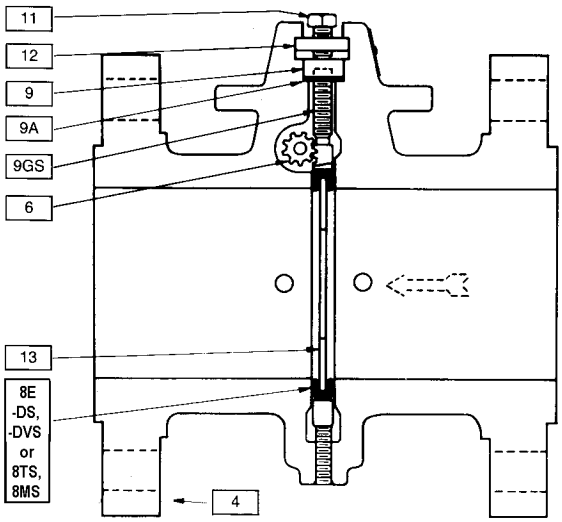
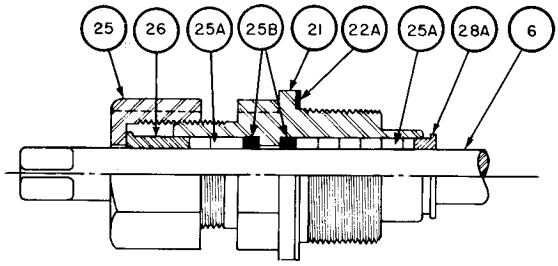


FRONT SECTIONAL ELEVATION



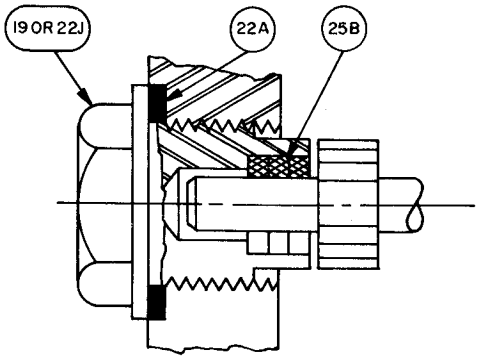
SIDE SECTIONAL ELEVATION

STUFFING BOX FOR 10″ - 24″ FITTING (EXCEPT 2500 CLASS)



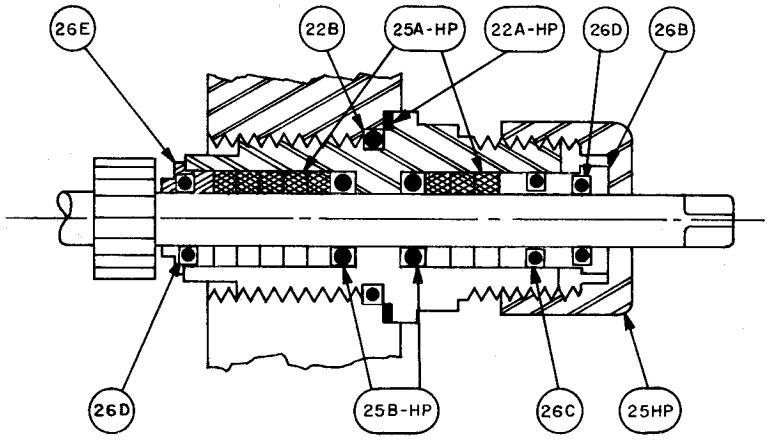
DETAIL 21-0

BEARING PLUG (EXCEPT 2500 CLASS)



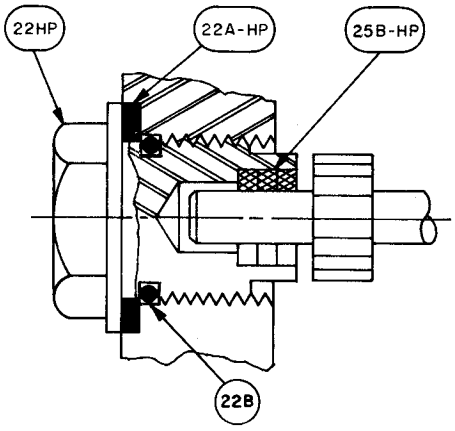
DETAIL 22

STUFFING BOX FOR 10″ - 12″ FITTING (CLASS 2500 ONLY)



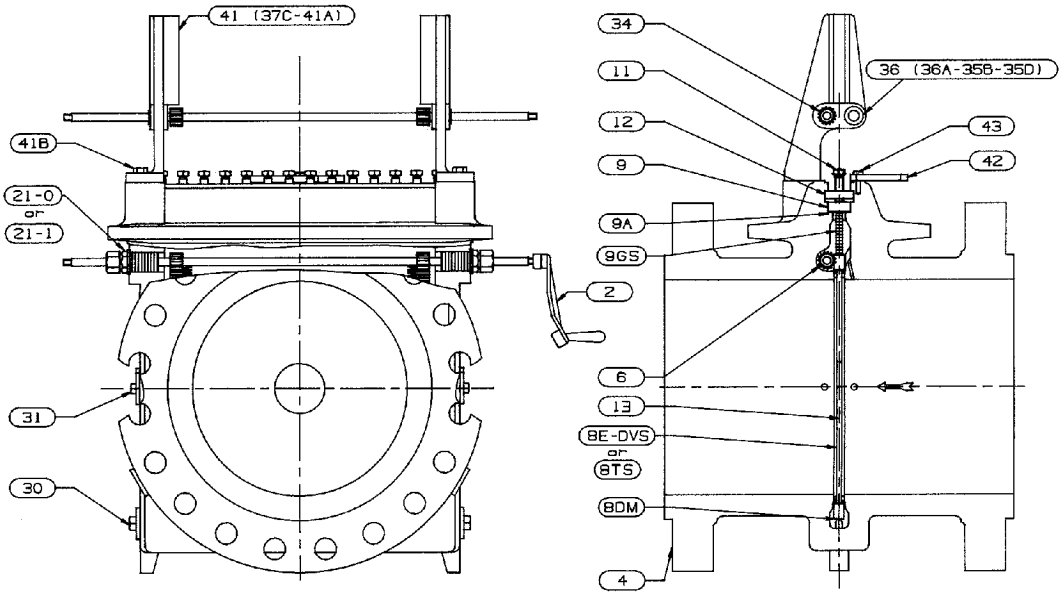
DETAIL 21 HP

BEARING PLUG (CLASS 2500 ONLY)



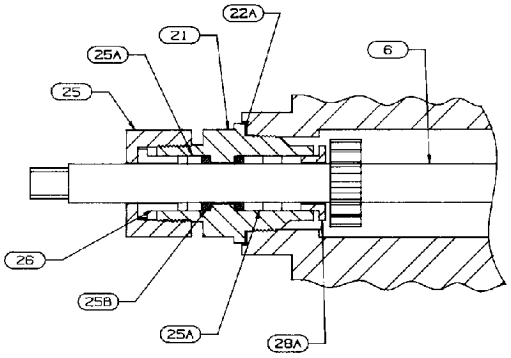
DETAIL 22 HP

DANIEL JUNIOR®ORIFICE FITTING 16"-42"

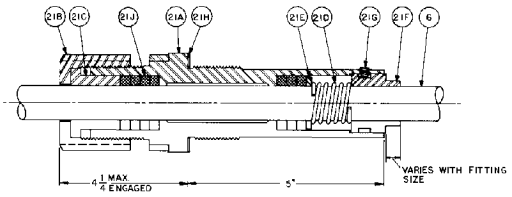


FRONT SECTIONAL ELEVATION

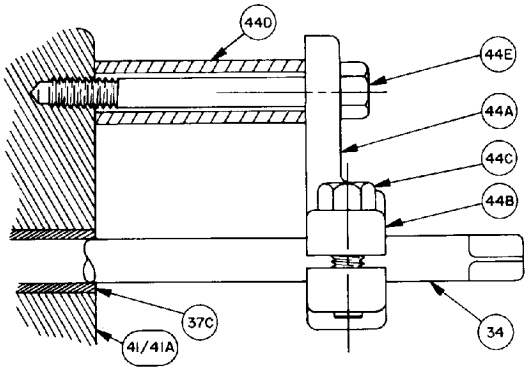
SIDE SECTIONAL ELEVATION



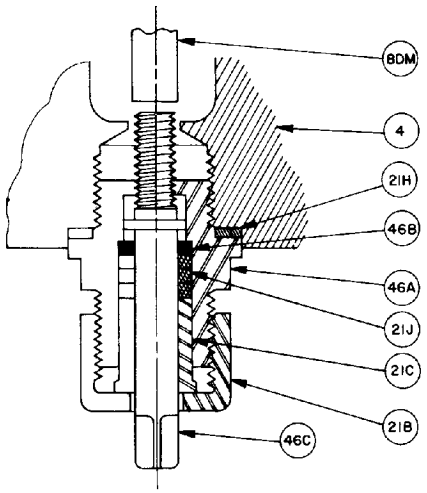
DETAIL 21-0 (STUFFING BOX FOR 16"-24" FITTING)



DETAIL 21-1 (STUFFING BOX FOR 30"-42" FITTING)



DETAIL 44 (42" ONLY)



DETAIL 46 (42" ONLY)

1.2 Parts and Materials List

PART NO.	DESCRIPTION	MATERIAL AND RATINGS	NUMBER REQUIRED (SIZES IN INCHES)										
			10	12	14	16	18	20	24	30	34	36	42
2	Operating Wrench	Malleable Iron	1	1	1	1	1	1	1	1	1	1	4
4	Body	Cast Iron Steel	1	1	1	1	1	1	1	1	1	1	1
6	Plate Carrier Shaft and Pinions	C.R.S. (Chemically Treated) 30"- 42" (316SS)	1	1	1	1	1	1	1	1	1	1	1
8 DM	Plate Carrier	C.R.S. (Chemically Treated)	1	1	1	1	1	1	1	1	1	1	1
8 E-DS	Sealing Unit	Synthetic Rubber (Removable)	1										
8 E-DVS	Sealing Unit	Synthetic Rubber Bonded to Both Sides Orifice Plate		1	1	1	1	1	1	1	1	1	1
8 TS	Optional Sealing Units for Special Services	Teflon (Plate Not Included)*	1	1	1	1							
8 MS	Optional Sealing Units for Special Services	Cadmium Plated and Stainless Steel (Plate Not Included)*	1	1	1								
	Integral Metal Seal*	Stainless Steel								1	1	1	1
9	Sealing Bar	C.R.S. (Chemically Treated)	1	1	1	1	1	1	1	1	1	1	1
9 HP*	Sealing Bar	C.R.S. (Chemically Treated) (1500 Only)*	1	1									
		(2500 Only)*	1	1									
9 GS	Sealing Bar Alignment Pin	C.R.S. (Chemically Treated)	1	1	1	1	1	1	1	1	1	1	1
9 A	Sealing Bar Gasket	Composite	1	1	1	1	1	1	1	1	1	1	1
11	Clamping Bar Screws	Steel (150-600)	8	10	11	12	14	15	18	24	34	24	32
		Steel (900)	8	10	22	24	28	28	36				
		Steel (1500 Only)	16	20	22	22	28	28					
		Steel (2500 Only)	28	28									
12	Clamping Bar	C.R.S. (Chemically Treated) (150-900)	1	1	1	1	1	1	1	1	1	1	1
12 HP*	Clamping Bar	C.R.S. (Chemically Treated) (1500)	1	1									
		(2500)	1	1									
13	Orifice Plate	Stainless Steel	1	1	1	1	1	1	1	1	1	1	1
14*	Top	Cast Iron Steel								1	1		1
16 A*	Plate Carrier Guide Screw	316 Stainless Steel								4	4		4
18 A*	Body-Top Gasket	Composite								1	1		1
18 C*	Plate Carrier Guide	Carbon Steel								2	2		2
21-0 & 21-1	Stuffing Body Assembly		1	1	1	2	2	2	2	2	2	2	
21 & 21 A	Stuffing Body Box	C.R.S.	1	1	1	2	2	2	2	2	2	2	2
21E	Packing Retainer Washer	316 Stainless Steel								2	2	2	2

PART NO.	DESCRIPTION	MATERIAL AND RATINGS	NUMBER REQUIRED (SIZES IN INCHES)										
			10	12	14	16	18	20	24	30	34	36	42
22 & 22 HP	Bearing Plug	C.R.S.	1	1	1								
22 A & 22 A-HP & 21 H	Bearing Plug and Stuffing Box Gaskets	Stainless Steel	2	2	2	2	2	2	2	†2	†2	2	†2
22 B	Bearing Plug and Stuffing Box "O" Ring Seals	Synthetic Rubber (Daniel 2500 Only)	2	2									
22 J	Special Stuffing Box Body Plug	Carbon Steel								2	2		2
25 & 25 HP & 21B	Packing Nuts	C.R.S. (Chemically Treated)	1	1	1	2	2	2	2	2	2	2	2
25 A & 21 J	Packing Sleeves	Teflon Daniel 150	9	11	12	14	14	14	14	16	16	16	16
		Teflon Daniel 300	9	11	12	14	16	14	14	16	16	16	16
		Teflon Daniel 600	10	11	13	14	16	20	22	16	16	16	
		Teflon Daniel 900	10	11									
		Teflon Daniel 1500	12	14									
25 A-HP	Packing Sleeves	Teflon Daniel 2500	10	10									
25 B &25 B-HP	Shaft Centering Rings	Teflon (None in 30"- 42")	2 Per Stuffing Box, 3 Per Bearing Plug										
26 & 21 C	Stuffing Box Glands	Stainless Steel (150 -1500)	1	1	1	2	2	2	2	2	2	2	2
26 B	External Stuffing Box Glands with "O" Ring Grove	316 Stainless Steel (2500 Only)	1	1									
26 E	Internal Stuffing Box Glands with "O" Ring Grove	316 Stainless Steel (2500 Only)	1	1									
26 C	"O" Rings	Synthetic Rubber (2500 Only)	1	1									
26 D	"O" Rings	Synthetic Rubber (2500 Only)	2	2									
28 A &21 F	Packing Bushing & Retainer	Stainless Steel (10"- 24") (150 -1500)	2	2	2	2	2	2	2				2
		Bronze (30"- 42")								2	2	2	
21 D	Stuffing Box Spring	316 Stainless Steel								2	2	2	2
21 G	Busing Set Screws	316 Stainless Steel								2	2	2	2
30	Drain Valve Plug	C.R.S.	2	2	2	2	2	2	2	2	2	2	2
31	1/2" N.P.T. Tap Hole Plug	C.R.S.	4	4	4	4	4	4	4	4	4	4	4
32*	Heavy Hex Nut	Steel (150)								40			
		Steel (600)									48		54
33*	Studs	Steel (150)								40			
		Steel (600)									48		54
34	External Plate Carrier Shaft and Pinions	C.R.S. (Chemically Treated) 30"- 42" (316SS)					1	1	1	1	1	1	1
36 & 36 A	External Shaft and Roller Assembly Shaft	C.R.S. (Chemically Treated) 30"- 42" (316SS)					1	1	1	1	1	1	1

PART NO.	DESCRIPTION	MATERIAL AND RATINGS	NUMBER REQUIRED (SIZES IN INCHES)										
			10	12	14	16	18	20	24	30	34	36	42
35 B	Rollers	Bronze					2	2	2	2	2	2	2
35 D	Roller Snap Rings	Steel (Chemically Treated)					2	2	2	2	2	2	4
41 & 41 A	Plate Carrier Guide Bracket Assembly: Brackets	Cast Carbon Steel					2	2	2	2	2	2	2
41 B	Hex Head Cap Screws	Steel					4	4	4	4	4	4	4
37 C	Shaft Bushing	Bronze					4	4	4	4	4	4	4
42	Plate Carrier Stop	Steel					1	1	1	1	1	1	1
43	Socket Head Cap Screw w/Bushing	Steel					1	1	1	1	1	1	1
44 & 44 A	Plate Carrier Travel Brake: Body	Cast Steel											4
44 B	Brake Band	Bronze											4
44 C	Adjustment Bolt	Steel											4
44 D	Sleeve	Steel											4
44 E	Hex Bolt	Steel											4
45 A	Shaft Support	Steel											2
45 B	Shaft Support Bushing	Bronze											4
45 C	Supporting Mtg. Bolts	Steel											4
46 & 46 A	Jackscrew Assembly: Jackscrew Body	316 Stainless Steel											1
46 C	Jackscrew Stem	4140											1
46 B	Jackscrew Ctrg. Ring	316 Stainless Steel											1

* Indicates parts interchangeable
C.R.S. - cold rolled steel