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10422 W. Gulf Bank Rd., Houston, Texas 77040

MCM OIL TOOLS products are manufactured and engineered to exact specifications. Our Products meet or exceed the OEM's material specifications. Material Certifications are kept on all products and are available upon request.

All MCM OIL TOOLS' replacement parts are completely interchangeable with OEM components.

We offer quality products at very competitive prices. Our large inventory enables us to promptly fill orders.



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Note: Please order by OEM part numbers. OEM part numbers shown in this Catalog are for reference only, MCM OIL TOOLS is not affiliated with any of the above companies



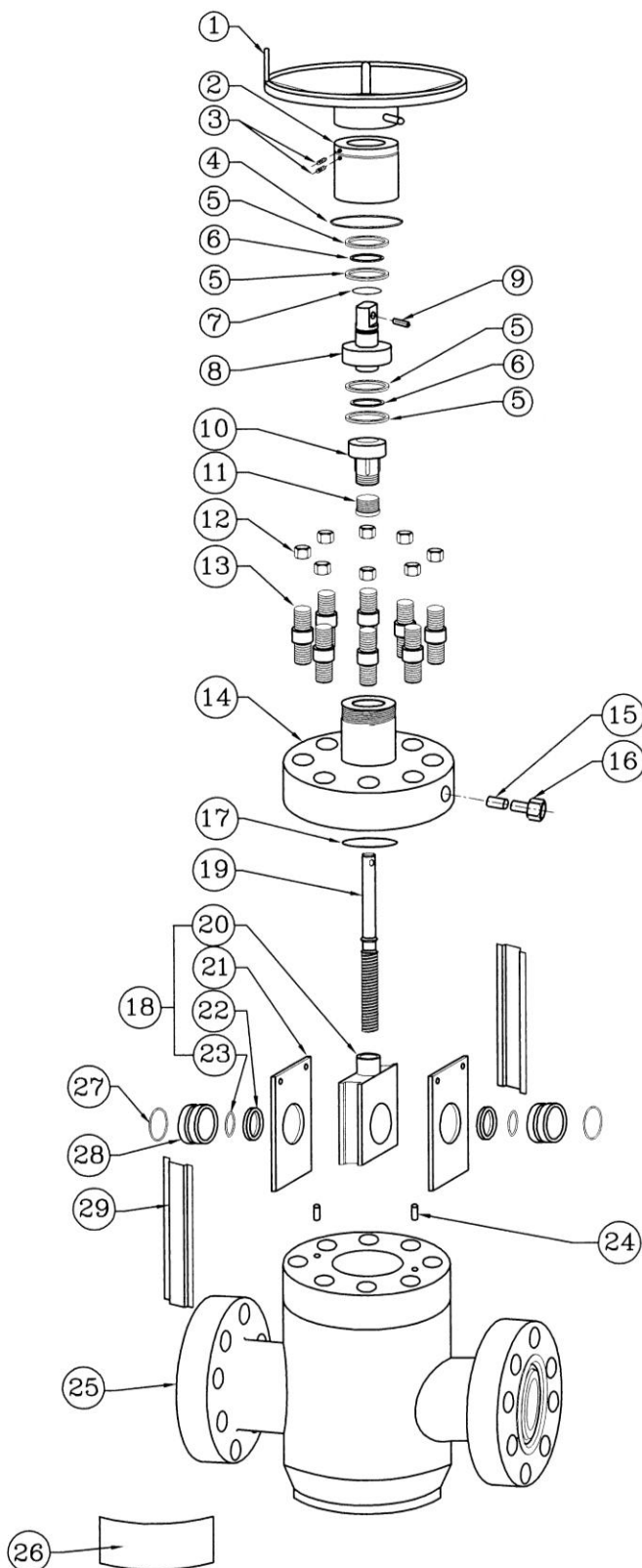
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Cameron⁺ Type 'F' & 'FC' Manual Valve



Parts List

- | | |
|----|------------------------------|
| 1 | Hand Wheel |
| 2 | Bearing Cap |
| 3 | Grease Fitting (Bearing Cap) |
| 4 | O-Ring |
| 5 | Bearing Race |
| 6 | Thrust Bearing |
| 7 | O-Ring (Stem Adapter) |
| 8 | Stem Adapter |
| 9 | Stem Pin |
| 10 | Packing Gland |
| 11 | Stem Packing |
| 12 | Nut |
| 13 | Stud |
| 14 | Bonnet |
| 15 | Check Valve |
| 16 | Grease Fitting |
| 17 | Bonnet Gasket*** |
| 18 | Gate & Seat Assembly** |
| 19 | Stem |
| 20 | Gate* |
| 21 | Retainer Plate |
| 22 | Seat Ring* |
| 23 | Seal Ring |
| 24 | Pin |
| 25 | Body |
| 26 | Name Plate |
| 27 | Seal Ring*** |
| 28 | Body Bushing*** |
| 29 | Guide*** |

* These parts change with trim

** Also changes with trim. Consists of: Gate (1ea), Retainer Plates (2ea), Seat Rings (2ea) & Seal Rings (2ea)

*** Not Used on 'F' Type



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Replacement Parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 1-13/16"

Item No.	Description	Qty	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Reg (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Reg (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-03	19937-03
2	Bearing Cap	1	19106-01	19106-01	19106-01	19106-01
3	Grease Fitting (Bearing Cap)	2	5929-05	5929-05	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340
5	Bearing Race	4	TRD2840	TRD2840	TRD2840	TRD2840
6	Thrust Bearing	2	NTA2840	NTA2840	NTA2840	NTA2840
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-222	OR-222
8	Stem Adapter	1	20871-01	20871-01	20871-01	20871-01
9	Stem Pin	1	21812-14	21812-14	21812-14	21812-14
10	Packing Gland	1	20874-01	20874-01	20874-01	20874-01
11	Stem Packing	1	686598-01	686598-01	686598-01	686598-01
12	Back Up Ring	1	-	-	691889-01	691889-01
13	Nut	8	5926-25-10	5926-25-10	5926-25-10	5926-25-10
14	Stud	8	5914-21-10	5914-21-10	5914-21-10	5914-21-10
15	Bonnet	1	BONNET-FCM1131610	BONNET-FCM1131610	BONNET-FCM11316-15	BONNET-FCM11316-15
16	Check Valve	1	678627-01-99	678627-01-99	678627-01-99	678627-01-99
17	Grease Fitting	1	5929-25	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
18	Bonnet Gasket (TYPE 'F')	1	19141-06	19141-06	19141-06	19141-06
19	Bonnet Gasket (TYPE 'FC')	1	44671-01	44671-01	44671-01	44671-01
20a	Gate & Seat Assembly (Regular)	1		21353-17-02		21353-17-03
20b	Gate & Seat Assembly (Super)	1	21353-17-16	21353-17-36	21353-17-16	21353-17-36
21	Stem	1	29381-01	29381-01	29381-01	29381-01
22a	Gate (Regular Trim)	1	23039-02-R	19797-03	23039-02-R	19797-03
22b	Gate (Super Trim)	1	23039-02-S	19797-03-SS-ST	23039-02-S	19797-03-SS-ST
23	Retainer Plate	2	611404-09	611404-09	611404-09	611404-09
24	Seat Ring (Super Trim)	2	611527-01-S	611527-01-S	611527-01-S	611527-01-S
25	Seal Ring	2	610500-49	610500-49	610500-49	610500-49
26	Pin		-	-	-	-
27	Body	1	BODY-FCM1131610	BODY-FCM1131610	BODY-FCM11316-15	BODY-FCM11316-15
28	Name Plate	1	19052-01	19052-01	19052-01	19052-01
29	Seal Ring	2	610500-49	610500-49	610500-49	610500-49
30	Body Bushing	2	630693-02	630693-02	630693-02	630693-02
31	Guide	2	694811-01	694811-01	694811-01	694811-01



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Replacement Parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 2-1/16"

Item No.	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-03	19937-03	19937-03	19937-03
2	Bearing Cap	1	19106-01	19106-01	19106-01	19106-01	19106-01	19106-01
3	Grease Fitting (Bearing Cap)	2	5929-05	5929-05	5929-05	5929-05	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	OR-340	OR-340
5	Bearing Race	4	TRD2840	TRD2840	TRD2840	TRD2840	TRD2840	TRD2840
6	Thrust Bearing	2	NTA2840	NTA2840	NTA2840	NTA2840	NTA2840	NTA2840
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
8	Stem Adapter	1	20871-01	20871-01	20871-01	20871-01	20871-01	20871-01
9	Stem Pin	1	21812-14	21812-14	21812-14	21812-14	21812-14	21812-14
10	Packing Gland	1	20874-01	20874-01	20874-01	20874-01	20874-01	20874-01
11	Stem Packing	1	686598-01	686598-01	686598-01	686598-01	686598-01	686598-01
12	Back Up Ring	1	—	—	—	—	691889-01	691889-01
13	Nut	8	5926-09-10	5926-09-10	5926-25-10	5926-25-10	5926-23-10	5926-23-10
14	Stud	8	5912-67-10	5912-67-10	5914-18-10	5914-18-10	5915-67-10	5915-67-10
15	Bonnet	1	BONNET-FCM21165	BONNET-FCM21165	BONNET-FCM211610	BONNET-FCM211610	BONNET-FCM2116-15	BONNET-FCM2116-15
16	Check Valve	1	—	—	678627-01-99	678627-01-99	678627-01-99	678627-01-99
17	Grease Fitting	1	5929-25	5929-55	5929-25	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
18	Bonnet Gasket	1	21793-11	21793-11	19141-07	19141-07	19141-07	19141-07
19a	Gate & Seat Assembly (Regular)	1	21353-02-01	21353-02-03	21353-02-01	21353-02-03	21353-02-01	21353-02-03
19b	Gate & Seat Assembly (Super)	1	21353-02-13	21353-02-34	21353-02-13	21353-02-34	21353-02-13	21353-02-34
20	Stem	1	29381-01	29381-01	29381-01	29381-01	29381-01	29381-01
21a	Gate (Regular Trim)	1	19798-04	19798-03	19798-04	19798-03	19798-04	19798-03
21b	Gate (Super Trim)	1	23042-02	19798-03-ST	23042-02	19798-03-ST	23042-02	19798-03-ST
22	Retainer Plate	2	611404-01	611404-01	611404-01	611404-01	611404-01	611404-01
23	Seat Ring (Super Trim)	2	44844-06-S	44844-06-S	44844-06-S	44844-06-S	44844-06-S	44844-06-S
24	Seal Ring	2	610500-23	610500-23	610500-23	610500-23	610500-23	610500-23
25	Pin	2	21813-06	21813-06	—	—	—	—
26	Body	1	BODY-FCM21165	BODY-FCM21165	BODY-FCM211610	BODY-FCM211610	BODY-FCM2116-15	BODY-FCM2116-15
27	Name Plate	1	19052-01	19052-01	19052-01	19052-01	19052-01	19052-01
28	Seal Ring	2	610500-23	610500-23	610500-23	610500-23	610500-23	610500-23
29	Body Bushing	2	630691-01	630691-01	630691-01	630691-01	630691-01	630691-01
30	Guide	2	694811-01	694811-01	694811-01	694811-01	694811-01	694811-01



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 2-9/16"

Item No.	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-03	19937-03	19937-03	19937-03
2	Bearing Cap	1	19106-01	19106-01	19106-01	19106-01	19312-01	19312-01
3	Grease Fitting (Bearing	2	5929-05	5929-05	5929-05	5929-05	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	OR-340	OR-340
5	Bearing Race	4	TRD2840	TRD2840	TRD2840	TRD2840	TRD3244	TRD3244
6	Thrust Bearing	2	NTA2840	NTA2840	NTA2840	NTA2840	NTA3244	NTA3244
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
8	Stem Adapter	1	20871-01	20871-01	20871-01	20871-01	20873-01	20873-01
9	Stem Pin	1	21812-14	21812-14	21812-14	21812-14	21812-15	21812-15
10	Packing Gland	1	20874-01	20874-01	20874-01	20874-01	20890-01	20890-01
11	Stem Packing	1	686598-01	686598-01	686598-01	686598-01	666853-02	666853-02
12	Back Up Ring	1	—	—	—	—	691889-02	691889-02
13	Nut	8	5926-10-10	5926-10-10	5926-23-10	5926-23-10	5926-25-10	5926-25-10
14	Stud	8	5915-60-10	5915-60-10	5915-40-10	5915-40-10	5926-10	5926-10
15	Bonnet	1	BONNET- FCM29165	BONNET- FCM29165	BONNET- FCM291610	BONNET- FCM291610	BONNET- FCM2916-15	BONNET- FCM2916-15
16	Check Valve	1	—	—	678627-01-99	678627-01-99	678627-01-99	678627-01-99
17	Grease Fitting	1	5929-25	5929-55	5929-25	5929-55	5929-55-916- AUTOCLAVE	5929-55-916- AUTOCLAVE
18	Bonnet Gasket ('F')	1	21793-12	21793-12	19141-08	19141-08	19141-12	19141-12
18	Bonnet Gasket ('FC')	1	21793-12	21793-12	19141-08	19141-08	19141-12	19141-12
19a	Gate & Seat Assembly (Regular Trim)	1	21353-25-03	21353-25-04	21353-25-03	21353-25-04		21353-25-05
19b	Gate & Seat Assembly (Super Trim)	1	21353-25-20	21353-25-32	21353-25-20	21353-25-32	21353-25-16	21353-25-40
20	Stem	1	29381-02	29381-02	29381-02	29381-02	38228-03-99	38228-03-99
21a	Gate (Regular Trim)	1	19799-05	19799-03	19799-05	19799-03		
21b	Gate (Super Trim)	1	23044-02	GATEFCM29165/10 -SS-HF	23044-02	GATEFCM29165/10 -SS-HF	23426-02	20986-03
22	Retainer Plate	2	611404-11	611404-11	611404-11	611404-11	611404-07	611404-07
23	Seat Ring (Super Trim)	2	44839-06-S	44839-06-S	44839-06-S	44839-06-S	44922-06-S	44922-06-S
24	Seal Ring	2	610500-33	610500-33	610500-33	610500-33	610500-52	610500-52
25	Pin	2	21813-06	21813-06	—	—	—	—
26	Body	1	BODY- FCM29165	BODY- FCM29165	BODY- FCM291610	BODY- FCM291610	BODY- FCM2916-15	BODY- FCM2916-15
27	Name Plate	1	19052-01	19052-01	19052-01	19052-01	19052-01	19052-01
28	Seal Ring	2	610500-33	610500-33	610500-33	610500-33	610500-52	610500-52
29	Body Bushing	2	630597-01	630597-01	630597-01	630597-01	630501-01	630501-01
30	Guide	2	235041-01	235041-01	235041-01	235041-01	44641-01	44641-01



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Replacement Parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 3-1/8" & 3-1/16"

Item No.	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-03	19937-03	20774-02	20774-02	20774-02	20774-02
2	Bearing Cap	1	19106-01	19106-01	19106-01	19106-01	678472-01	678472-01
3	Grease Fitting (Bearing Cap)	2	5929-05	5929-05	5929-05	5929-05	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	OR-354	OR-354
5	Bearing Race	4	TRD2840	TRD2840	TRD2840	TRD2840	TRD4458	TRD4458
6	Thrust Bearing	2	NTA2840	NTA2840	NTA2840	NTA2840	NTA4458	NTA4458
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
8	Stem Adapter	1	20871-01	20871-01	20871-01	20871-01	678474-01	678474-01
9	Stem Pin	1	21812-14	21812-14	21812-14	21812-14	21812-60	21812-60
10	Packing Gland	1	20874-01	20874-01	20874-01	20874-01	677509-02	677509-02
11	Stem Packing	1	686598-01	686598-01	686598-01	686598-01	686598-12	686598-12
12	Back Up Ring	1	—	—	—	—	691889-03	691889-03
13	Nut	8	5926-25-10	5926-25-10	5926-24-10	5926-24-10	5926-23-10	5926-23-10
14	Stud	8	5914-21-10	5914-21-10	5917-33-10	5917-33-10	5914-95-10	5914-95-10
15	Bonnet	1	BONNET-FCM3185	BONNET-FCM3185	BONNET-FCM311610	BONNET-FCM311610	BONNET-FCM3116-15	BONNET-FCM3116-15
16	Check Valve	1	—	—	678627-01-99	678627-01-99	678627-01-99	678627-01-99
17	Grease Fitting	1	5929-25	5929-55	5929-25	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
18	Bonnet Gasket	1	21793-27	21793-27	19141-10	19141-10	19141-13	19141-13
19a	Gate & Seat Assembly (Regular)	1	21353-03-01	21353-03-02	21353-03-01	21353-03-02		21353-03-32
19b	Gate & Seat Assembly (Super)	1	21353-03-07	21353-03-30	21353-03-07	21353-03-30	21353-25-34	21353-03-33
20	Stem	1	29381-03	29381-03	29381-03	29381-03	687853-01	687853-01
21a	Gate (Regular Trim)	1	19800-03	19800-02-SS	19800-03	19800-02-SS		
21b	Gate (Super Trim)	1	23247-02	19800-02-ST	23247-02	19800-02-ST	678253-01	677512-01
22	Retainer Plate	2	611404-03	611404-03	611404-03	611404-03	611404-15	611404-15
23	Seat Ring (Super Trim)	2	44783-06-S	44783-06-S	44783-06-S	44783-06-S	678353-01	678353-01
24	Seal Ring	2	610500-50	610500-50	610500-50	610500-50	610500-55	610500-55
25	Pin	2	21813-06	21813-06	—	—	—	—
26	Body	1	BODY-FCM3185	BODY-FCM3185	BODY-FCM311610	BODY-FCM311610	BODY-FCM3116-15	BODY-FCM3116-15
27	Name Plate	1	19052-01	19052-01	19052-01	19052-01	19052-01	19052-01
28	Seal Ring	2	610500-50	610500-50	610500-50	610500-50	610500-55	610500-55
29	Body Bushing	2	694813-01	694813-01	630469-06	630469-06	630471-02	630471-02
30	Guide	2	694482-01	694482-01	694482-01	694482-01	44640-01	44640-01



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 4-1/16"

Item No.	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19337-03	19337-03	20774-02	20774-02	20774-02	20774-02
2	Bearing Cap	1	19106-01	19106-01	19312-01	19312-01	681111-01	681111-01
3	Grease Fitting (Bearing Cap)	2	5929-05	5929-05	5929-05	5929-05	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	-	-
5	Bearing Race	4	TRD2840	TRD2840	TRD3244	TRD3244	TRD4458	TRD4458
6	Thrust Bearing	2	NTA2840	NTA2840	NTA3244	NTA3244	NTA4458	NTA4458
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-224	OR-224	OR-230	OR-230
8	Stem Adapter	1	20871-01	20871-01	20873-01	20873-01	681112-01	681112-01
9	Stem Pin	1	21812-14	21812-14	21812-15	21812-15	21813-34	21813-34
10	Packing Gland	1	20874-01	20874-01	690169	690169	690164	690164
11	Stem Packing	1	686598-01	686598-01	686598-02	686598-02	686598-12	686598-12
12	Nut	8	5926-23-10	5926-23-10	5926-27-10	5926-27-10	5926-28-10	5926-28-10
13	Stud	8	5915-67-10	5915-67-10	6306-22-10	6306-22-10	7311-06-10	7311-06-10
14	Bonnet	1	BONNET-FCM41165	BONNET-FCM41165	BONNET-FCM411610	BONNET-FCM411610	BONNET-FCM4116-15	BONNET-FCM4116-15
15	Check Valve	1	-	-	678627-01-99	678627-01-99	678627-01-99	678627-01-99
16	Grease Fitting	1	5929-25	5929-25	5929-55	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
17	Bonnet Gasket	1	21794-03	21794-03	19141-11	19141-11	19141-15	19141-15
18a	Gate & Seat Assembly (Regular)	1	21353-04-01	21353-04-02		21353-04-03		21353-04-41
18b	Gate & Seat Assembly (Super)	1	21353-04-11	21353-04-55	21353-04-12	21353-04-36	21353-04-42	21353-04-43
19	Stem	1	29381-04-99	29381-04-99	38228-01	38228-01	682564-07	682564-07
20a	Gate (Regular Trim)	1	19801-03	19801-03-SS	23249-01-R	19794-02		682255-01
20b	Gate (Super Trim)	1	23248-01	19801-03-ST	23249-01-S	19794-02-ST	682255-02	682255-05
21	Retainer Plate	2	611404-05	611404-05	611404-17	611404-17	682257-01	682257-01
22	Seat Ring (Super Trim)	2	610482-03-S	610482-03-S	610978-02-S	610978-02-S	611535-02	611535-02
23	Seal Ring	2	610500-47	610500-47	610500-47	610500-47	610500-58	610500-58
24	Pin	2	21813-06	21813-06	-	-	-	-
25	Body	1	BODY-FCM41165	BODY-FCM41165	BODY-FCM411610	BODY-FCM411610	BODY-FCM4116-15	BODY-FCM4116-15
26	Name Plate	1	19052-01	19052-01	19052-01	19052-01	19052-01	19052-01
27	Seal Ring	2	610500-47	610500-47	610500-47	610500-47	610500-58	610500-58
28	Body Bushing	2	630472-02	630472-02	610774-02	610774-02	630706-02	630706-02
29	Guide	2	694816-01	694816-01	694406-01	694406-01	611045-01	611045-01
30	Back Up Ring	1	-	-	-	-	691889-03	691889-03



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Manual Valve 6-1/8" & 6-3/8"

Item No.	Description	Qty	6-1/8" 2-5,000 PSI	6-3/8" 2-5,000 PSI
			'DD' Trim Regular Trim (a) Super Trim (b)	'DD' Trim Regular (a) Super (b)
			Part Number	Part Number
1	Handwheel	1	20774-02	20774-02
2	Grease Fitting (Bearing Cap)	2	5929-05	5929-05
3	Bearing Cap	1	19312-01	19312-01
4	Bearing Cap Oring	1	OR-340	OR-340
5	Bearing Race	4	TRD3244	TRD3244
6	Thrust Bearing	2	NTA3244	NTA3244
7	O-Ring (Stem-Adapter)	1	OR-224	OR-224
8	Stem Adapter	1	20873-01	20873-01
9	Stem Pin	1	21812-15	21812-15
10	Packing Gland	1	690169	690169
11	Stem Packing	1	686598-02	686598-02
12	Stud	8	---	---
13	Nut	8	---	---
14	Bonnet	1	---	---
15	Check Valve	1	NA	NA
16	Grease Fitting	1	5929-55	5929-55
17	Bonnet Gasket	1	140171-06-02-04	140171-06-02-04
18a	Gate & Seat Assy (Regular)	1	21353-06-01	21353-06-18
18b	Gate & Seat Assy (Super)		21353-06-04	21353-06-15
19	Stem	1	140151-02-03-01	140151-02-03-01
20a	Gate (Regular)	1	21353-06-01-GATE	21353-06-18-GATE
20b	Gate (Super)	1	21353-06-04-GATE	21353-06-15-GATE
21	Retainer Plate	1	611404-13	611404-13
22a	Seat Ring (Regular)	2	15394-13-R	21353-06-18-SEAT
22b	Seat Ring (Super)	2	15394-13-S	21353-06-15-SEAT
23	Seal Ring	2	14719-48	14719-48
24	Pin	1	---	---
25	Body	1	---	---
26	Name Plate	1	---	---
27	Seal Ring		14719-48	14719-48
28	Body Bushing		630742-02	631036-01
29	Guide		696046-01	690046-01



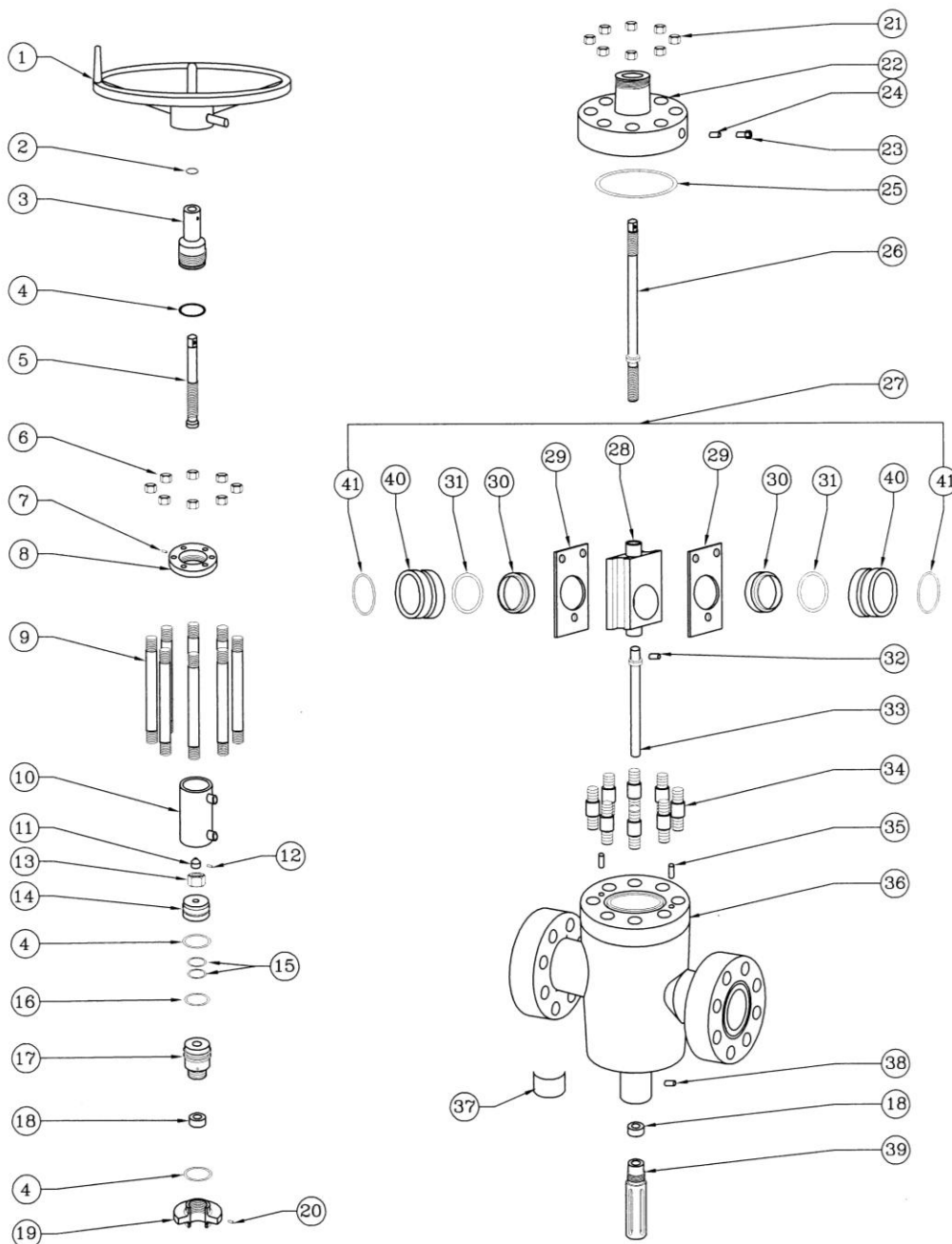
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Cameron⁺ Style 'F' & 'FC' Hydraulic Valve



Parts List

- 1 Hand Wheel
- 2 O-Ring
- 3 Adjusting Nut
- 4 O-Ring
- 5 Locking Screw
- 6 Cylinder Head Nut
- 7 Set Screw
- 8 Blind Cylinder Head
- 9 Cylinder Head Stud
- 10 Cylinder
- 11 Centering Pin
- 12 Set Screw
- 13 Piston Lock Nut
- 14 Piston
- 15 O-Ring
- 16 O-Ring
- 17 Gland
- 18 Stem Packing
- 19 Lower Cylinder Head
- 20 Relief Valve
- 21 Bonnet Nut
- 22 Bonnet
- 23 Grease Fitting
- 24 Valve Check
- 25 Bonnet Gasket
- 26 Stem
- 27 Gate & Seat Assy.
- 28 Gate
- 29 Retainer Plate
- 30 Seat Ring
- 31 Seal Ring
- 32 Pin
- 33 Lower Stem
- 34 Bonnet Stud
- 35 Bonnet Locating Pin
- 36 Body
- 37 Name Plate
- 38 Pipe Plug
- 39 Stem Protector
- 40 Body Bushing
- 41 Body Bushing Seal
- 42 Guide



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Hydraulic Valve 2-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-03	19937-03	19937-03	19937-03
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
3	Adjusting Nut	1	22936-01	22936-01	22936-01	22936-01	22936-01	22936-01
4	O-Ring	3	OR-344	OR-344	OR-344	OR-344	OR-344	OR-344
5	Locking Screw	1	18597-01	18597-01	18597-01	18597-01	18597-01	18597-01
6	Cylinder Head Nut	6	5926-08	5926-08	5926-08	5926-08	5926-08	5926-08
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06	5940-06	5940-06
8	Blind Cylinder Head	1	22939-01	22939-01	22939-01	22939-01	22939-01	22939-01
9	Cylinder Head Stud	6	5911-48	5911-48	5911-48	5911-48	5911-48	5911-48
10	Cylinder	1	20459-04	20459-04	20459-04	20459-04	20459-04	20459-04
11	Centering Pin	1	18596-01	18596-01	18596-01	18596-01	18596-01	18596-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-05	5953-05	5953-05	5953-05
14	Piston	1	20582-01	20582-01	20582-01	20582-01	20582-01	20582-01
15	O-Ring	2	OR-214	OR-214	OR-214	OR-214	OR-214	OR-214
16	O-Ring	1	OR-333	OR-333	OR-333	OR-333	OR-333	OR-333
17	Gland	1	20454-02	20454-02	20454-02	20454-02	20454-02	20454-02
18	Stem Packing	2	686598-01	686598-01	686598-01	686598-01	686598-01	686598-01
19	Lower Cylinder Head	1	20583-1	20583-1	20583-1	20583-1	20583-1	20583-1
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-09-10	5926-09-10	5926-25-10	5926-25-10	5926-23-10	5926-23-10
22	Bonnet	1	BONNET-FCM21165	BONNET-FCM21165	BONNET-FCM211610	BONNET-FCM211610	BONNET-FCM2116-15	BONNET-FCM2116-15
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
24	Valve Check	-	-	-	678627-01-99	678627-01-99	678627-01-99	678627-01-99
25	Bonnet Gasket	1	21793-11	21793-11	19141-07	19141-07	19141-07	19141-07
26	Stem	1	34272-01	34272-01	34272-01	34272-01	34272-01	34272-01
27a	Gate & Seat Assy (R. Trim)	1						
27b	Gate & Seat Assy (S. Trim)	1	21436-02-04		21436-02-04		21436-02-04	
28a	Gate (Regular Trim)	1	29786-01-R	29786-01-SS	29786-01-R	29786-01-SS	29786-01-R	29786-01-SS
28b	Gate (Super Trim)	1	29786-01-S	29786-01-SS-ST	29786-01-S	29786-01-SS-ST	29786-01-S	29786-01-SS-ST
29	Retainer Plate	2	611404-01	611404-01	611404-01	611404-01	611404-01	611404-01
30	Seat Ring (Super Trim)	2	44844-06-S	44844-06-S	44844-06-S	44844-06-S	44844-06-S	44844-06-S
31	Seal Ring	2	610500-23	610500-23	610500-23	610500-23	610500-23	610500-23
32	Pin	1	21812-52	21812-52	21812-52	21812-52	21812-52	21812-52
33	Lower Stem	1	34271-02	34271-02	34271-02	34271-02	34271-02	34271-02
34	Bonnet Stud	8	5912-67-10	5912-67-10	5914-18-10	5914-18-10	5915-67-10	5915-67-10
35	Bonnet locating Pin	2	21813-06	21813-06	-	-	-	-
36	Body	1	BODY-FCHY21165	BODY-FCHY21165	BODY-FCHY211610	BODY-FCHY211610	BODY-FCHY2116-15	BODY-FCHY2116-15
37	Name Plate	1	19052	19052	19052	19052	19052	19052
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"
39	Stem Protector	1	20460-02	20460-02	20460-02	20460-02	20460-02	20460-02
40	Body Bushing	2	630691-01	630691-01	630691-01	630691-01	630691-01	630691-01
41	Body Bushing Seal	2	610500-23	610500-23	610500-23	610500-23	610500-23	610500-23
42	Guide	2	694811-01	694811-01	694811-01	694811-01	694811-01	694811-01
44	Back-Up Ring	1	-	-	-	-	691889-01	691889-01



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Hydraulic Valve 3-1/8", 3-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	20774-02	20774-02	20774-02	20774-02	19937-03	19937-03
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222	OR-325	OR-325
3	Adjusting Nut	1	22948-01-5M	22948-01-5M	22948-01-10M	22948-01-10M	689724-00	689724-00
4	O-Ring	3	OR-345	OR-345	OR-348	OR-348	OR-434	OR-434
5	Locking Screw	1	18597-03	18597-03	18597-03	18597-03	18597-06	18597-06
6	Cylinder Head Nut	6	5926-08	5926-08	5926-08	5926-08	5926-10-10	5926-10-10
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06	5940-06	5940-06
8	Blind Cylinder Head	1	22939-01	22939-01	22945-01	22945-01	690173-01	690173-01
9	Cylinder Head Stud	6	STUD-FCHY-CYHD-3185M	STUD-FCHY-CYHD-3185M	5911-49	5911-49	34863-57-01-35	34863-57-01-35
10	Cylinder	1	20459-14	20459-14	20459-08	20459-08	689723-01	689723-01
11	Centering Pin	1	18596-01	18596-01	18596-01	18596-01	18598-01	18598-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-05	5953-05	5953-06	5953-06
14	Piston	1	20582-01	20582-01	20946-01	20946-01	20828-01	20828-01
15	O-Ring	2	OR-214	OR-214	OR-214	OR-214	OR-218	OR-218
16	O-Ring	1	OR-333	OR-333	OR-333	OR-333	OR-336	OR-336
17	Gland	1	20454-02	20454-02	20943-02	20943-02	689722-02	689722-02
18	Stem Packing	2	686598-01	686598-01	686598-01	686598-01	686598-12	686598-12
19	Lower Cylinder Head	1	20583-1	20583-1	20938-01	20938-01	689721-62-0766	689721-62-0766
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-25-10	5926-25-10	5926-24-10	5926-24-10	5926-23-10	5926-23-10
22	Bonnet	1	BONNET-FCM3185	BONNET-FCM3185	BONNET-FCM311610	BONNET-FCM311610	BONNET-FCM3116-15	BONNET-FCM3116-15
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	5929-55-16-AUTOCLAVE	5929-55-916-AUTOCLAVE
24	Valve Check	-	-	-	678627-01-99	678627-01-99	678627-01-99	678627-01-99
25	Bonnet Gasket	1	21793-27	21793-27	19141-10	19141-10	19141-13	19141-13
26	Stem	1	34272-02-99	34272-02-99	34272-04	34272-04	689720-02-99	689720-02-99
27a	Gate & Seat Assy (R. Trim)	1						
27b	Gate & Seat Assy (S. Trim)	1	21436-03-04		21436-03-04		21436-03-15	
28a	Gate (Regular Trim)	1	29399-01-R	29399-01-SS	29399-01-R	29399-01-SS		
28b	Gate (Super Trim)	1	29399-01-S	29399-01-SS-ST	29399-01-S	29399-01-SS-ST	610768-01	GATE3116-15FCHY-SS-ST
29	Retainer Plate	2	611404-03	611404-03	611404-03	611404-03	611404-15	611404-15
30	Seat Ring (Super Trim)	2	44783-06-S	44783-06-S	44783-06-S	44783-06-S	678353-01	678353-01
31	Seal Ring	2	610500-50	610500-50	610500-50	610500-50	610500-55	610500-55
32	Pin	1	21812-52	21812-52	21812-52	21812-52	21812-60	21812-60
33	Lower Stem	1	34271-03	34271-03	34271-03	34271-03	610929-04	610929-04
34	Bonnet Stud	8	5914-21-10	5914-21-10	5917-33-10	5917-33-10	-	-
35	Bonnet locating Pin	2	21814-05	21814-05	-	-	-	-
36	Body	1	BODY-FCHY3185	BODY-FCHY3185	BODY-FCHY311610	BODY-FCHY311610	BODY-FCHY3116-15	BODY-FCHY3116-15
37	Name Plate	1	19052	19052	19052	19052	19052-01	19052-01
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	-	-
39	Stem Protector	1	20953-01	20953-01	20953-01	20953-01	STEMPROTECTOR 311615CIWFFC	STEMPROTECTOR 311615CIWFFC
40	Body Bushing	2	694813-01	694813-01	630469-06	630469-06	630471-02	630471-02
41	Body Bushing Seal	2	610500-50	610500-50	610500-50	610500-50	610500-55	610500-55
42	Guide	2	694482-01	694482-01	694482-01	694482-01	44640-01	44640-01
44	Back-Up Ring	1	-		-	-	OR-222	OR-222



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Replacement parts for Cameron⁺ Type 'F' & 'FC' Hydraulic Valve 4-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	20774-02	20774-02	20774-02	20774-02
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222	OR-325	OR-325
3	Adjusting Nut	1	22938-01	22938-01	22850-01	22850-01	44611-01	44611-01
4	O-Ring	3	OR-344	OR-344	OR-434	OR-434	OR-443	OR-443
5	Locking Screw	1	18597-04	18597-04	18597-04	18597-04	18597-07	18597-07
6	Cylinder Head Nut	6	5926-08	5926-08	5926-10	5926-10	5926-25-10	5926-25-10
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06	5940-37	5940-37
8	Blind Cylinder Head	1	22939-01	22939-01	22410-01	22410-01	44614-01	44614-01
9	Cylinder Head Stud	6	STUD-FCHY- CYHD-41165M	STUD-FCHY- CYHD-41165M	5913-30	5913-30	38732-58-01-67	38732-58-01-67
10	Cylinder	1	20459-3	20459-3	20459-07	20459-07	689723-02	689723-02
11	Centering Pin	1	18596-01	18596-01	18598-01	18598-01	18598-01	18598-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-06	5953-06	5953-07	5953-07
14	Piston	1	20582-01	20582-01	20828-01	20828-01	44612-01	44612-01
15	O-Ring	2	OR-214	OR-214	OR-218	OR-218	OR-325	OR-325
16	O-Ring	1	OR-333	OR-333	OR-337	OR-337	OR-337	OR-337
17	Gland	1	20454-02	20454-02	20827-02	20827-02	PACKINGGLAND FCHY4116-15	PACKINGGLAND FCHY4116-15
18	Stem Packing	2	686598-01	686598-01	686598-02	686598-02	686598-12	686598-12
19	Lower Cylinder Head	1	20583-1	20583-1	20553-01	20553-01	446178-01	446178-01
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-23-10	5926-23-10	5926-27-10	5926-27-10	5926-28-10	5926-28-10
22	Bonnet	1	BONNET- FCM41165	BONNET- FCM41165	BONNET- FCM411610	BONNET- FCM411610	BONNET- FCM4116-15	BONNET- FCM4116-15
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	5929-55-916- AUTOCLAVE	5929-55-916- AUTOCLAVE
24	Valve Check	-	-	-	678627-01	678627-01	678627-01-99	678627-01-99
25	Bonnet Gasket	1	21794-03	21794-03	19141-11	19141-11	19141-15	19141-15
26	Stem	1	34272-03	34272-03	38638-01	38638-01	44613-02	44613-02
27a	Gate & Seat Assy (R. Trim)	1						
27b	Gate & Seat Assy (S. Trim)	1	21436-04-07		21436-04-05			
28a	Gate (Regular Trim)	1	679362-01-R		34273-01-R	34273-01-R-SS		
28b	Gate (Super Trim)	1	679632-01	679632-01-SS-ST	34273-01	34273-01-SS-HF	44618-01	GATEFCHY4116- 15-SS-ST
29	Retainer Plate	2	611404-05	611404-05	611404-17	611404-17	682257-01	682257-01
30	Seat Ring (Super Trim)	2	610482-03-S	610482-03-S	610978-02-S	610978-02-S	611535-02	611535-02
31	Seal Ring	2	610500-47	610500-47	610500-47	610500-47	610500-58	610500-58
32	Pin	1	21812-52	21812-52	21810-80	21810-80	21610-98	21610-98
33	Lower Stem	1	34271-01	34271-01	28360-03	28360-03	44603-02-99	44603-02-99
34	Bonnet Stud	8	5915-67-10	5915-67-10	6306-22-10	6306-22-10	-	-
35	Bonnet locating Pin	2	21814-05	21814-05	-	-	-	-
36	Body	1	BODY- FCHY41165	BODY- FCHY41165	BODY- FCHY411610	BODY- FCHY411610	BODY- FCHY4116-15	BODY- FCHY4116-15
37	Name Plate	1	19052	19052	19052-01	19052-01	19052-01	19052-01
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	-	-
39	Stem Protector	1	20461-01	20461-01	20849-02	20849-02	44615-01	44615-01
40	Body Bushing	2	694815-01	694815-01	610774-02	610774-02	630706-02	630706-02
41	Body Bushing Seal	2	610500-47	610500-47	610500-47	610500-47	610500-58	610500-58
42	Guide	2	694816-01	694816-01	694406-01	694406-01	611045-01	611045-01
43	Back-Up Ring	4	-	-	-	-	BU-325	BU-325
44	Back-Up Ring	1	-	-	-	-	BU-429	BU-429
45	Back-Up Ring	1	-	-	-	-	BU-434	BU-434
46	Back-Up Ring	3	-	-	-	-	BU-443	BU-443



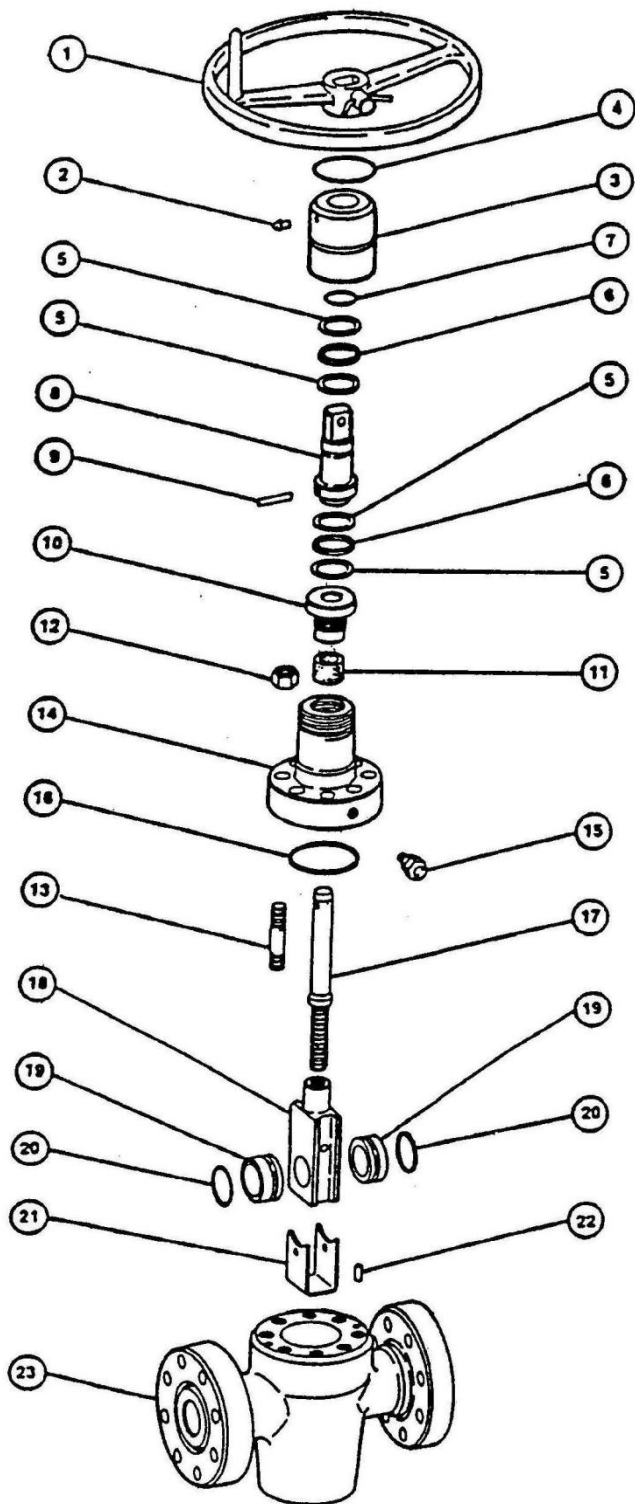
MCM OIL TOOLS, INC.

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Cameron⁺ Type 'FL' Manual Valve



Parts List

- 1 Hand Wheel Assembly
- 2 Grease Fitting
- 3 Bearing Cap
- 4 O-Ring
- 5 Bearing Race
- 6 Thrust Bearing
- 7 O-Ring
- 8 Stem Adapter
- 9 Stem Shear Pin
- 10 Packing Gland
- 11 Stem Packing
- 12 Nut
- 13 Stud
- 14 Bonnet
- 15 Grease Injection Fitting
- 16 Bonnet Seal Ring
- 17 Stem
- 18 Gate
- 19 Seat
- 20 Seal Ring
- 21 Retainer Plate
- 22 Dowel Pin
- 23 Body



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Replacement Parts for Cameron⁺ Type 'FL'

Item No.	Description	2-1/16" 5,000 PSI	2-1/16" 10,000 PSI	3-1/8" 5,000 PSI
		Part Number	Part Number	Part Number
4	O-Ring	OR-340	OR-340	OR-340
5	Bearing Race	TRD2840	TRD2840	TRD2840
6	Bearing	NTA2840	NTA2840	NTA2840
7	O-Ring	OR-222	OR-222	OR-222
11	Stem Packing	686598-01	686598-01	686598-01
15	Grease Fitting	5929-55	5929-55	5929-55
16	Bonnet Gasket	21793-11	19141-07	21793-27
17	Stem	29381-01	29381-01	29381-03
18	Gate	23042-02	23042-9-02	23247-02
19	Seat Ring	630248-05	630248-05	630250-5
20	Seat Ring Seal	610500-92	610500-92	610500-71
21	Retainer Plate	630252-01	630252-01	630254-01

Item No.	Description	3-1/16" 10,000 PSI	4-1/16" 5,000 PSI	7-1/16" 5,000 PSI (6-3/8 Bore)
		Part Number	Part Number	Part Number
4	O-Ring	OR-340	OR-340	OR-343
5	Bearing Race	TRD2840	TRD2840	TRD3244
6	Bearing	NTA2840	NTA2840	NTA3244
7	O-Ring	OR-222	OR-222	OR-224
11	Stem Packing	686598-01	686598-01	686598-02
15	Grease Fitting	5929-55	5929-55	5929-55
16	Bonnet Gasket	19141-10	21794-03	140171-06-02-04
17	Stem	29381-03	29381-04-99	654057-03
18	Gate	23247-02	23248-01	654058-02
19	Seat Ring	653250-5	630251-5	654056-0
20	Seat Ring Seal	610500-71	610500-67	19719-93
21	Retainer Plate	630254-01	630255-01	654061-01



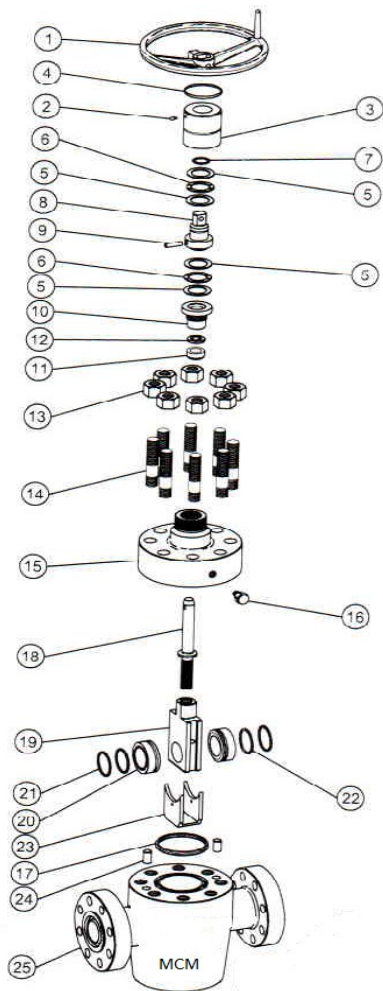
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Cameron⁺ Type 'FLS' Manual Valve



Parts List

- | | |
|----|-------------------------|
| 1 | Hand Wheel |
| 2 | Bearing Cap Grease Fttg |
| 3 | Bearing Cap |
| 4 | Bearing Cap O-ring |
| 5 | Bearing Race |
| 6 | Thrust Bearing |
| 7 | O-ring Stem Adapter |
| 8 | Stem Adapter |
| 9 | Pin Stem Adapter |
| 10 | Packing Gland |
| 11 | Stem Packing |
| 12 | Seal Back Up |
| 13 | Stud |
| 14 | Nut |
| 15 | Bonnet |
| 16 | Body Lube Fitting |
| 17 | Bonnet Gasket |
| 18 | Stem |
| 19 | Gate |
| 20 | Seat Ring |
| 21 | OD Seal Ring |
| 22 | ID Seal Ring |
| 23 | Retainer Plate |
| 24 | Pin |
| 25 | Body |

MCM OIL TOOLS FLS STYLE GATE VALVE SPARE PARTS



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Replacement Parts for Cameron⁺ Type 'FLS' Manual Valve 2-1/16"

Item No.	Description	Qty	5,000 PSI 'DD' Super Trim	5,000 PSI 'EE' SS Super Trim	10,000 PSI 'DD' Super Trim	10,000 PSI 'EE' SS Super Trim	15,000 PSI 'DD' Super Trim	15,000 PSI 'EE' SS Super Trim
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-01	19937-01	19937-03	19937-03
2	Bearing Cap Grease Ftg	1	5929-05	5929-05	5929-05	5929-05	19106-01	19106-01
3	Bearing Cap	2	19106-01		19106-01	19106-01	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	OR-340	OR-340
5	Bearing Race	4	TRD2840	TRD2840	TRD2840	TRD2840	TRD2840	TRD2840
6	Thrust Bearing	2	NTA2840	NTA2840	NTA2840	NTA2840	NTA2840	NTA2840
7	O-Ring (Stem-Adapter)	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
8	Stem Adapter	1	20871-01	20871-01	20871-01	20871-01	20871-01	20871-01
9	Stem Pin	1	21812-14	21812-14	21812-14	21812-14	21812-14	21812-14
10	Packing Gland	1	20874-01	20874-01	20874-01	20874-01	20874-01	20874-01
11	Stem Packing	1	20129912-01-01	20129912-01-01	20129912-01-01	20129912-01-01	20129912-01-01	20129912-01-01
12	Back Up Ring	1	—	—	—	—	691889-04	691889-04
13	Nut	8	5926-09-10	5926-09-10	5926-25-10	5926-25-10	5926-23-10	5926-23-10
14	Stud	8	5912-67-10	5912-67-10	5914-18-10	5914-18-10	5915-67-10	5915-67-10
15	Bonnet	1	BONNET-FLSM21165	BONNET-FLSM21165	BONNET-FCM211610	BONNET-FCM211610	BONNET-FLSM2116-15	BONNET-FLSM2116-15
16	Body Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	5929-55-916-AUTOCLAVE	5929-55-916-AUTOCLAVE
17	Bonnet Gasket	1	21793-11		19141-07	19141-07	19141-07	19141-07
18	Stem	1	29381-01	29381-01	29381-01	29381-01	29381-01	29381-01
19	Gate	1	23042-02	19798-03-ST	23042-02	19798-03-ST	140676-01-71-02-S	GATEFLSM2116-15-SSH
20	Seat Ring (Super Trim)	2	140137-01-71-03-S	140137-01-71-03-S	140137-01-71-03-S	140137-01-71-03-S	140675-01-71-02	140675-01-71-02
21	OD Seal Ring	2	140146-03-01-03	140146-03-01-03	140146-03-01-03	140146-03-01-03	140146-03-01-03	140146-03-01-03
22	ID Seal Ring	2	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03
23	Retainer Plate	1	630252-01	630252-01	630252-01	630252-01	630252-01	630252-01
24	Pin	2	21813-06	21813-06	21813-06	21813-06	21813-06	21813-06
25	Body	1	BODY-FLSM21165	BODY-FLSM21165	BODY-FLSM211610	BODY-FLSM211610	BODY-FLSM2116-15	BODY-FLSM2116-15



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Replacement Parts for Cameron⁺ Type 'FLS' Manual Valve 3-1/8" & 3-1/16"

Item No.	Description	Qty	5,000 PSI 'DD' Super Trim	5,000 PSI 'EE' SS Super Trim	10,000 PSI 'DD' Super Trim	10,000 PSI 'EE' Super Trim	15,000 PSI 'DD' Super Trim	15,000 PSI 'EE' SS Super Trim
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-03	19937-03	20774-02	20774-02	20774-02	20774-02
2	Grease Fitting (Bearing Cap)	1	5929-05	5929-05	5929-05	5929-05	678472-01	678472-01
3	Bearing Cap	2	19106-01	19106-01	19312-01	19312-01	5929-05	5929-05
4	O-Ring	1	OR-340	OR-340	OR-340	OR-340	OR-354	OR-354
5	Bearing Race	4	TRD2840	TRD2840	TRD3244	TRD3244	TRD3244	TRD3244
6	Thrust Bearing	2	NTA2840	NTA2840	NTA3244	TRD3244	NTA3244	NTA3244
7	O-Ring (Stem- Adapter)	1	OR-222	OR-222	OR-224	OR-224	OR-224	OR-224
8	Stem Adapter	1	20871-01	20871-01	20873-01	20873-01	20873-01	20873-01
9	Stem Pin	1	21812-14	21812-14	21812-15	21812-15	21812-15	21812-15
10	Packing Gland	1	20874-01	20874-01	690169	690169	690169	690169
11	Stem Packing	1	2012992-01-01	2012992-01-01	2012992-03-01	2012992-03-01	2012992-03-01	2012992-03-01
12	Back Up Ring	1	—	—	—	—	2013133-03	2013133-03
13	Nut	8	5926-25-10	5926-25-10	5926-24-10	5926-24-10	5926-27-10	5926-27-10
14	Stud	8	5914-21-10	5914-21-10	5917-33-10	5917-33-10	6306-22-10	6306-22-10
15	Bonnet	1	BONNET- FCM3185	BONNET- FCM3185	BONNET- FLSM311610	BONNET- FLSM311610	BONNET- FLSM3116-15	BONNET- FLSM3116-15
16	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	712806	712806
17	Bonnet Gasket	1	21793-27	21793-27	19141-10	19141-10	140170-07-01-04	140170-07-01-04
18	Stem	1	140150-30-01-01	140150-30-01-01	140151-10-70-03	140151-10-70-03	STEMFLSM- 3116-15	STEMFLSM-3116- 15
19	Gate	1	140192-01-71-03	140192-01-71-03	140259-01-71-03-S	140259-01-71-03- SS-ST	140342-01-71-03	140342-01-71-03
20	Seat	1	140254-01-72-03- S	140254-01-72-03-S	140254-01-72-03-S	140254-01-72-03-S	SEATFLS3116- 15ST	SEATFLS3116- 15ST
21	OD SEAL	2	140399-04-01-03	140399-04-01-03	140399-04-01-03	140399-04-01-03	140399-07-01-03	140399-07-01-03
22	ID SEAL	2	140398-04-01-03	140398-04-01-03	140398-04-01-03	140398-04-01-03	140398-04-01-03	140398-04-01-03
23	Retainer Plate	1	631999-01	631999-01	631999-01	631999-01	630859-01	630859-01
24	Pin	2	21813-06	21813-06			-----	-----
25	Body	1	BODY-FLSM3185	BODY- FLSM3185	BODY- FLSM311610	BODY- FLSM311610	BODY- FLSM3116-15	BODY-FLSM3116- 15



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Replacement parts for Cameron⁺ Type 'FLS' Manual Valve 4-1/16"

Item No.	Description	QTY	5,000 PSI 'DD' Super Trim	5,000 PSI 'EE' SS SUPER TRIM	10,000 PSI 'DD' Super Trim	10,000 PSI 'EE' SS SUPERTRIM
			Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19337-03	19337-03	20774-02	20774-02
2	Grease Fitting (Bearing Cap)	2	5929-05	5929-05	5929-05	5929-05
3	Bearing Cap	1	19106-01	19106-01	19312-01	19312-01
4	Bearing Cap Oring	1	OR-340	OR-340	OR-340	OR-340
5	Bearing Race	4	TRD2840	TRD2840	TRD3244	TRD3244
6	Thrust Bearing	2	NTA2840	NTA2840	NTA3244	NTA3244
7	O-Ring (Stem- Adapter)	1	OR-222	OR-222	OR-224	OR-224
8	Stem Adapter	1	20871-01	20871-01	20873-01	20873-01
9	Stem Pin	1	21812-14	21812-14	21812-15	21812-15
10	Packing Gland	1	20874-01	20874-01	690169	690169
11	Stem Packing	1	2012992-01-01	2012992-01-01	2012992-03-01	2012992-03-01
12	Seal Back Up	1			2013133-03	2013133-03
13	Stud	8	5915-67-10	5915-67-10	6306-22-10	6306-22-10
14	Nut	8	5926-23-10	5926-23-10	5926-27-10	5926-27-10
15	Bonnet	1	BONNET-FCM41165	BONNET-FCM41165	BONNET-FLSM411610	BONNET-FLSM411610
16	Grease Fitting	1	5929-25	5929-25	5929-55	5929-55
17	Bonnet Gasket	1	21794-03	21794-03	19141-11	19141-11
18	Stem	1	29381-04-99	29381-04-99	38228-01	38228-01
19	Gate	1	GATEFLSM41165-SSHf	GATEFLSM41165-SSHf	140131-01-71-03	140131-01-71-03-SS-ST
20	Seat	1	140136-01-72-S	140136-01-72-S	140230-01-71-02	140230-01-71-02
21	OD Seal Ring	2	140146-01-01-0	140146-01-01-0	140146-02-01-03	140146-02-01-03
22	ID Seal Ring	2	140147-01-01-0	140147-01-01-0	140147-01-01-03	140147-01-01-03
23	Retainer Plate	1	631999-01	631999-01	630255-01	630255-01
24	Pin	1	21813-06	21813-06	NA	NA
25	Body	1	BODY-FLSM41165	BODY-FLSM41165	BODY-FLSM411610	BODY-FLSM411610



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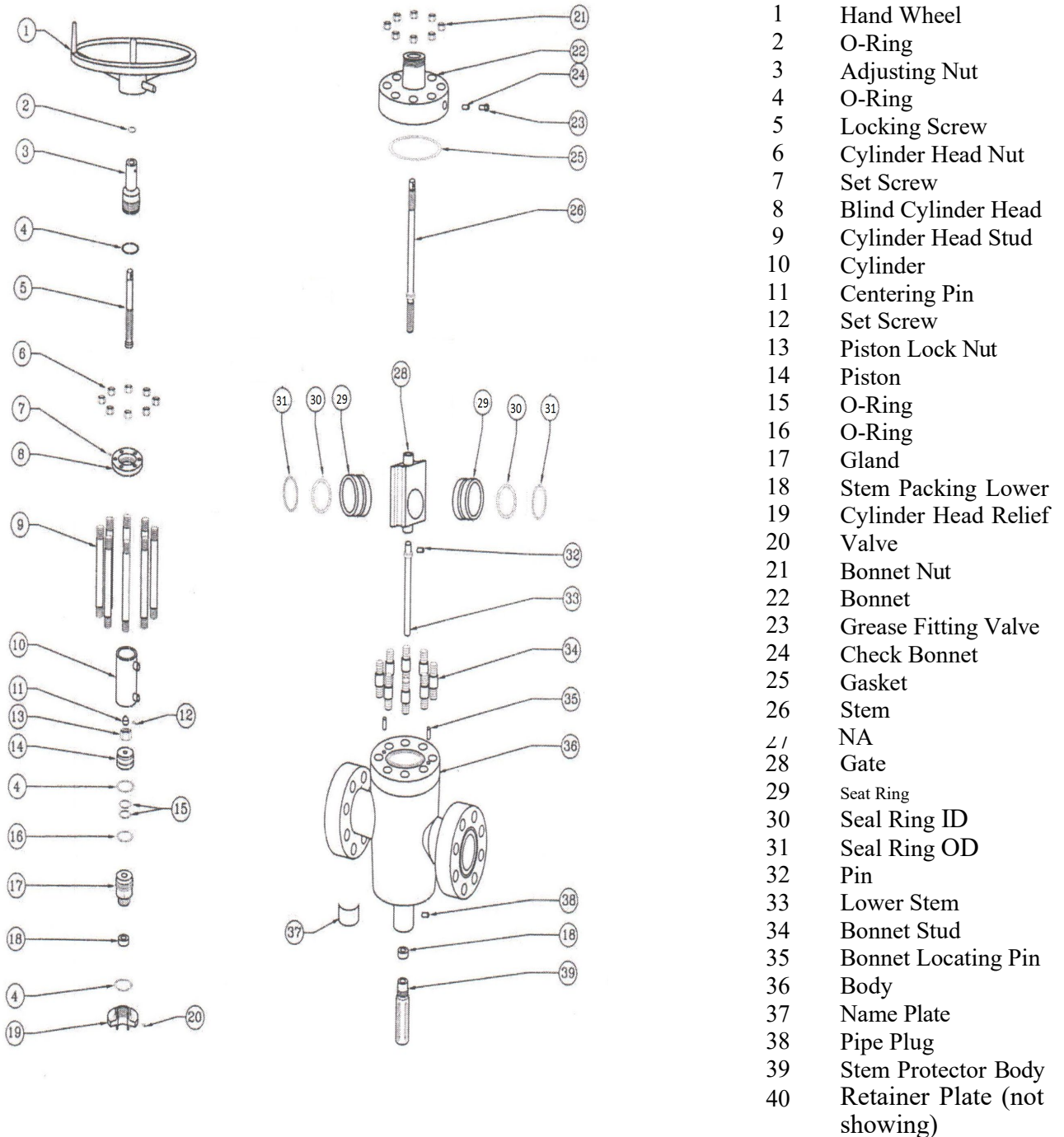
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Cameron⁺ Style 'FLS' Hydraulic Valve

Parts List





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Replacement parts for Cameron⁺ Type 'FLS' Hydraulic Valve 2-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim Regular (a) Super (b)	5,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	10,000 PSI 'DD' Trim Regular (a) Super (b)	10,000 PSI 'EE' Trim SS Regular (a) SS Super (b)	15,000 PSI 'DD' Trim Regular (a) Super (b)	15,000 PSI 'EE' Trim SS Regular (a) SS Super (b)
			Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	19937-01	19937-01	19937-03	19937-03	19937-03	19937-03
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222	OR-222	OR-222
3	Adjusting Nut	1	22936-01	22936-01	22936-01	22936-01	22936-01	22936-01
4	O-Ring	3	OR-344	OR-344	OR-344	OR-344	OR-344	OR-344
5	Locking Screw	1	18597-01	18597-01	18597-01	18597-01	18597-01	18597-01
6	Cylinder Head Nut	6	5926-08	5926-08	5926-08	5926-08	5926-08	5926-08
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06	5940-06	5940-06
8	Blind Cylinder Head	1	22939-01	22939-01	22939-01	22939-01	22939-01	22939-01
9	Cylinder Head Stud	6	5911-48	5911-48	5911-48	5911-48	5911-48	5911-48
10	Cylinder	1	20459-04	20459-04	20459-04	20459-04	20459-04	20459-04
11	Centering Pin	1	18596-01	18596-01	18596-01	18596-01	18596-01	18596-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-05	5953-05	5953-05	5953-05
14	Piston	1	20582-01	20582-01	20582-01	20582-01	20582-01	20582-01
15	O-Ring	2	OR-214	OR-214	OR-214	OR-214	OR-214	OR-214
16	O-Ring	1	OR-333	OR-333	OR-333	OR-333	OR-333	OR-333
17	Gland	1	20454-02	20454-02	20454-02	20454-02	20454-02	20454-02
18	Stem Packing	2	2012992-01-01	2012992-01-01	2012992-01-01	2012992-01-01	2012992-01-01	2012992-01-01
19	Lower Cylinder Head	1	20583-1	20583-1	20583-1	20583-1	20583-1	20583-1
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-09-10	5926-09-10	5926-25-10	5926-25-10	5926-23-10	5926-23-10
22	Bonnet	1	BONNET- FLSM21165	BONNET- FLSM21165	BONNET- FLSM211610	BONNET- FLSM211610	BONNET- FLSM2116-15	BONNET- FLSM2116-15
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	5929-55-916- AUTOCLAVE	5929-55-916- AUTOCLAVE
24	Valve Check	-	-	-	678627-01-99	678627-01-99	678627-01-99	678627-01-99
25	Bonnet Gasket	1	21793-11	21793-11	19141-07	19141-07	19141-07	19141-07
26	Stem	1	34272-01	34272-01	34272-01	34272-01	34272-01	34272-01
27		1	--	--	--	--	--	--
28a	Gate (Regular Trim)	1	29786-01-R	29786-01-SS	29786-01-R	29786-01-SS	29786-01-R	29786-01-SS
28b	Gate (Super Trim)	1	29786-01-S	29786-01-SS-ST	29786-01-S	29786-01-SS-ST	29786-01-S	29786-01-SS-ST
29	Seat Ring	2	140137-01-71-03-S	140137-01-71-03-S	140137-01-71-03-S	140137-01-71-03-S	140675-01-71-02-S	140675-01-71-02-S
30	Seal Ring ID	2	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03	140398-02-01-03
31	Seal Ring OD	2	140146-03-01-03	140146-03-01-03	140146-03-01-03	140146-03-01-03	140146-06-01-03	140146-06-01-03
32	Pin	1	21812-52	21812-52	21812-52	21812-52	21812-52	21812-52
33	Lower Stem	1	34271-02	34271-02	34271-02	34271-02	34271-02	34271-02
34	Bonnet Stud	8	5912-67-10	5912-67-10	5914-18-10	5914-18-10	5915-67-10	5915-67-10
35	Bonnet locating Pin	2	21813-06	21813-06	-	-	-	-
36	Body	1	BODY- FLSHY21165	BODY- FLSHY21165	BODY- FLSHY211610	BODY- FLSHY211610	BODY- FLSHY2116-15	BODY- FLSHY2116-15
37	Name Plate	1	19052	19052	19052	19052	19052	19052
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"
39	Stem Protector	1	20460-02	20460-02	20460-02	20460-02	20460-02	20460-02
40	Retainer Plate	2	630691-01	630691-01	630691-01	630691-01	630691-01	630691-01



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Replacement parts for Cameron⁺ Type 'FLS' Hydraulic Valve 3-1/8", 3-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim Super	5,000 PSI 'EE' Trim SS Super	10,000 PSI 'DD' Trim Super	10,000 PSI 'EE' Trim SS Super	15,000 PSI 'EE' Trim SS SUPER
			Part Number	Part Number	Part Number	Part Number	Part Number
1	Handwheel	1	20774-02	20774-02	20774-02	20774-02	20774-02
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222	OR-222
3	Adjusting Nut	1	22948-01-5M	22948-01-5M	22948-01-10M	22948-01-10M	22850-01
4	O-Ring	3	OR-345	OR-345	OR-348	OR-348	OR-434
5	Locking Screw	1	18597-03	18597-03	18597-03	18597-03	18597-04
6	Cylinder Head Nut	6	5926-08	5926-08	5926-08	5926-08	5926-10
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06	5940-06
8	Blind Cylinder Head	1	22939-01	22939-01	22945-01	22945-01	22410-01
9	Cylinder Head Stud	6	STUD-FCHY-CYHD3185M	STUD-FCHYD-CYHD3185M	5911-49	5911-49	5913-30
10	Cylinder	1	20459-14	20459-14	20459-08	20459-08	20459-07
11	Centering Pin	1	18596-01	18596-01	18596-01	18596-01	18598-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-05	5953-05	5953-06
14	Piston	1	20582-01	20582-01	20946-01	20946-01	20828-01
15	O-Ring	2	OR-214	OR-214	OR-214	OR-214	OR-218
16	O-Ring	1	OR-333	OR-333	OR-333	OR-333	OR-337
17	Gland	1	20454-02	20454-02	20943-02	20943-02	20827-02
18	Stem Packing	2	2012992-01-01	2012992-01-01	2012992-01-01	2012992-01-01	2012992-03-01
19	Lower Cylinder Head	1	20583-1	20583-1	20938-01	20938-01	20553-01
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-25-10	5926-25-10	5926-24-10	5926-24-10	6306-22-10
22	Bonnet	1	BONNET-FLSM3185	BONNET-FLSM3185	BONNET-FLSM311610	BONNET-FLSM311610	BONNET-FLSM3116-15
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55	712806
24	Valve Check	-	-	-	678627-01-99	678627-01-99	--
25	Bonnet Gasket	1	21793-27	21793-27	19141-10	19141-10	140170-07-01-04
26	Stem	1	34272-02-99	34272-02-99	34272-04	34272-04	19141-13
27	NA	0	--	--	--	--	--
28	Gate	1	2012303-71-03-01	GATEFLSHY 31165/10-SS-ST	2012303-71-03-01	GATEFLSHY 31165/10-SS-ST	GATEFLSHY3116-15-SS-ST
29	Seat Ring	2	140254-01-72-03-S	140254-01-72-03-S	140254-01-72-03-S	140254-01-72-03-S	SEATFLS3116-15ST
30	Seal Ring ID	2	140398-04-01-03	140398-04-01-03	140398-04-01-03	140398-04-01-03	140399-07-01-03
31	Seal Ring OD	2	140399-04-01-03	140399-04-01-03	140399-04-01-03	140399-04-01-03	140398-04-01-03
32	Pin	1	21812-52	21812-52	21812-52	21812-52	21810-80
33	Lower Stem	1	34271-03	34271-03	34271-03	34271-03	28360-03
34	Bonnet Stud	8	5914-21-10	5914-21-10	5917-33-10	5917-33-10	6306-22-10
35	Bonnet locating Pin	2	21814-05	21814-05	-	-	-
36	Body	1	BODY-FLSHY3185	BODY-FLSHY3185	BODY-FLSHY311610	BODY-FLSHY311610	BODY-FLSHY3116-15
37	Name Plate	1	--	--	--	--	--
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"
39	Stem Protector	1	20953-01	20953-01	20953-01	20953-01	20849-02
40	Retainer Plate	1	2012298-01	2012298-01	2012298-01	2012298-01	RETAINERPLATE-FLSHY3116-15



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Replacement parts for Cameron⁺ Type 'FLS' 4-1/16"

Item No	Description	Qty	5,000 PSI 'DD' Trim	5,000 PSI 'EE' Trim	10,000 PSI 'DD' Trim	10,000 PSI 'EE' Trim
			Super Part Number	SS Super Part Number	Super Part Number	SS Super Part Number
1	Handwheel	1	19937-01	19937-01	20774-02	20774-02
2	O-Ring	1	OR-222	OR-222	OR-222	OR-222
3	Adjusting Nut	1	22938-01	22938-01	22850-01	22850-01
4	O-Ring	3	OR-344	OR-344	OR-434	OR-434
5	Locking Screw	1	18597-04	18597-04	18597-04	18597-04
6	Cylinder Head Nut	6	5926-08	5926-08	5926-10	5926-10
7	Set Screw	2	5940-06	5940-06	5940-06	5940-06
8	Blind Cylinder Head	1	22939-01	22939-01	22410-01	22410-01
9	Cylinder Head Stud	6	STUD-FCHY-CYHD-41165M	STUD-FCHY-CYHD-41165M	5913-30	5913-30
10	Cylinder	1	20459-3	20459-3	20459-07	20459-07
11	Centering Pin	1	18596-01	18596-01	18598-01	18598-01
12	Set Screw	1	5940-01-01-04	5940-01-01-04	5940-01-01-04	5940-01-01-04
13	Piston Lock Nut	1	5953-05	5953-05	5953-06	5953-06
14	Piston	1	20582-01	20582-01	20828-01	20828-01
15	O-Ring	2	OR-214	OR-214	OR-218	OR-218
16	O-Ring	1	OR-333	OR-333	OR-337	OR-337
17	Gland	1	20454-02	20454-02	20827-02	20827-02
18	Stem Packing	2	686598-01	686598-01	2012992-03-01	2012992-03-01
19	Lower Cylinder Head	1	20583-1	20583-1	20553-01	20553-01
20	Relief Valve	1	5929-10	5929-10	5929-10	5929-10
21	Bonnet Nut	8	5926-23-10	5926-23-10	5926-27-10	5926-27-10
22	Bonnet	1	BONNET-FLSM41165	BONNET-FLSM41165	BONNET-FLSM411610	BONNET-FLSM411610
23	Grease Fitting	1	5929-55	5929-55	5929-55	5929-55
24	Valve Check	-	-	-	678627-01	678627-01
25	Bonnet Gasket	1	21794-03	21794-03	19141-11	19141-11
26	Stem	1	34272-03	34272-03	38638-01	38638-01
27	NA	1				
28	Gate (Super Trim)	1	GATEFLSHY41165-SS-ST	GATEFLSHY41165-SS-ST	GATEFLSHY411610-ST	GATEFLSHY411610-SS-ST
29	Seat Ring (Super Trim)	2	140254-01-72-03-S	140254-01-72-03-S	140230-01-72-02-S	140230-01-72-02-S
30	Seal Ring ID	2	140147-01-01-03	140147-01-01-03	140147-01-01-03	140147-01-01-03
31	Seal Ring OD	2	140146-023-01-03	140146-023-01-03	140146-02-01-03	140146-023-01-03
32	Pin	1	21812-52	21812-52	21810-80	21810-80
33	Lower Stem	1	34271-01	34271-01	28360-03	28360-03
34	Bonnet Stud	8	5915-67-10	5915-67-10	6306-22-10	6306-22-10
35	Bonnet locating Pin	2	21814-05	21814-05	-	-
36	Body	1	BODY-FLSHY41165	BODY-FLSHY41165	BODY-FLSHY411610	BODY-FLSHY411610
37	Name Plate	1	19052	19052	19052-01	19052-01
38	Pipe Plug	1	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"	5930-01 1/2"
39	Stem Protector	1	20461-01	20461-01	20849-02	20849-02
40	Retainer Plate	2	630255-01	630255-01	630255-01	630255-01



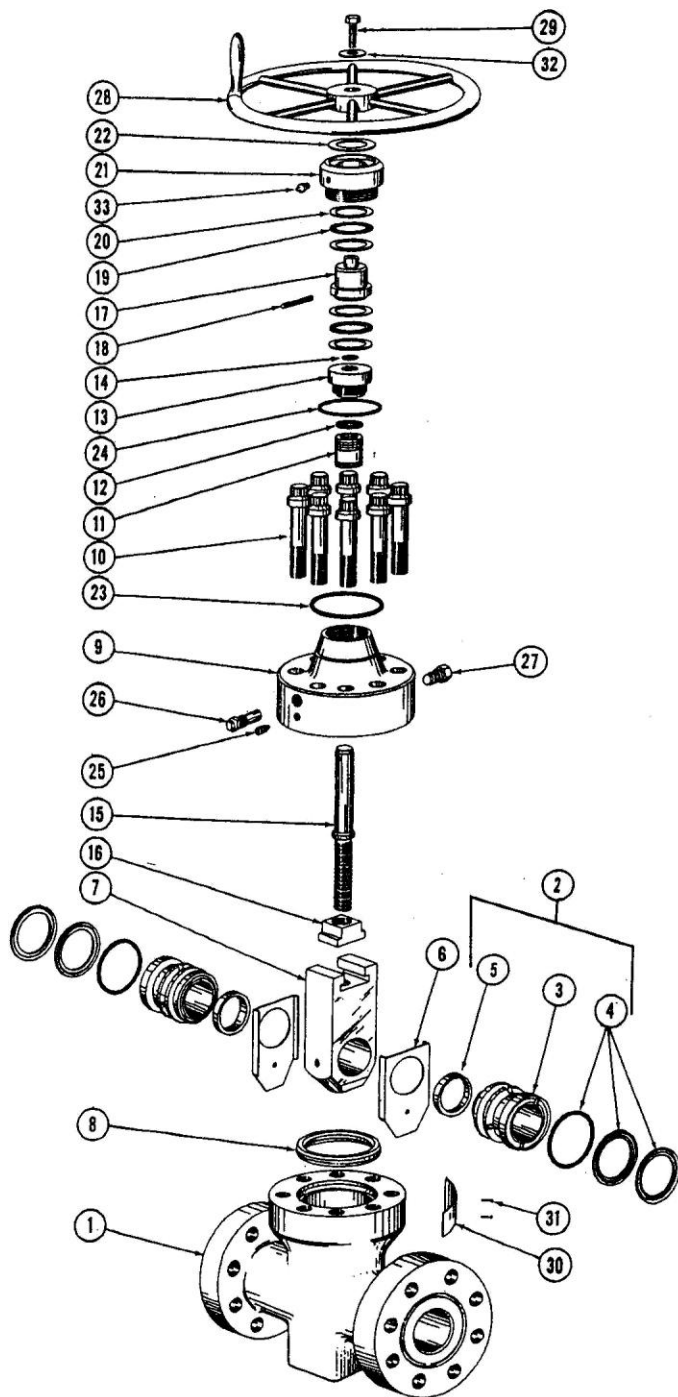
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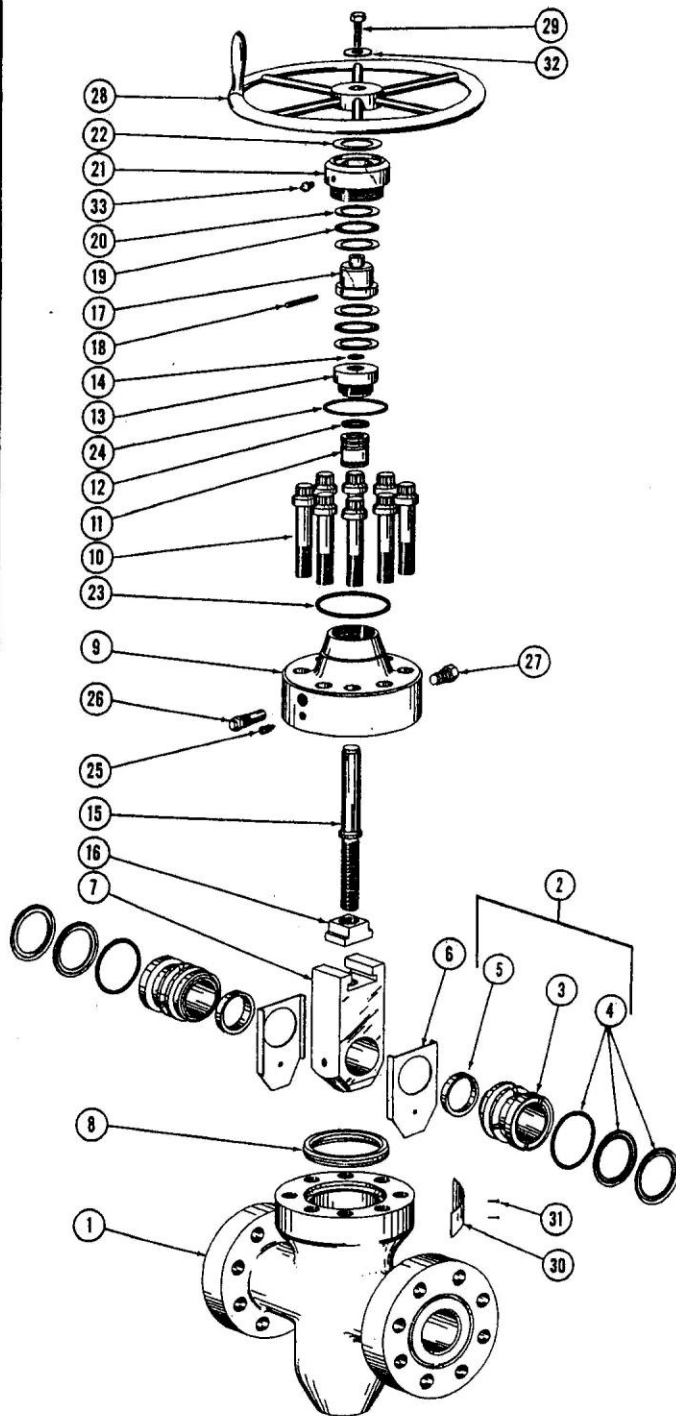
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TYPE B Gate Valve Parts 5,000 & 10,000 Handwheel Operated



5,000 psi Type B Valve



10,000 psi Type B Valve



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TYPE B Gate Valve Parts 5,000 & 10,000 Handwheel Operated

Service	Item Number	Description	Qty Req	No. Spare Parts Rec.	Part Number					
		Working Pressure (psi)			10,000			5,000		
		Bore (Inches)			4-1/16"	3-1/16"	2-1/16"	4-1/16"	3-1/8"	2-1/16"
Normal Temperature and Standard Trim		Assy #'s Standard Ring Grooves Stainless Steel Ring Grooves			719042	719041	719039	719036	719035	719281
					719283	719254		719250	719204	.....
	1	Body *	1		.....	.....	.....	.....	.....	.....
	2	Seat Assembly*	2	2	717921	717919	717917	717915	717913	717911
	3	Seat *	2	2	717872	717871	717870	717897	717907	717888
	4	O-Ring (Spring)	2	2	030928	030611	030601	030847	030608	030599
	5	Elastomeric II Face Seal	2	2	718187	718186	718185	718187	718186	718185
	6	Grease Plate	2	2	717174	717128	717109	717113	717909	717894
	7	Gate*	1	1	717138	717139	717135	717137	717905	717886
	8	Bonnet Gasket*	1	1	050388	050387	050383	050388	050385	050382
	9	Bonnet*	1		717118	717091	717122	717092	717123	717885
	10	Bonnet Bolts*†	8		060435	060435	060433	060434	060433	060430
	11	Packing Assembly	1	1	717075	717075	717078	717075	717078	717078
	12	Modular Bearing	1	1	062229	062229	062228	062229	062228	062228
	13	Packing Gland	1		717055	717055	717083	717055	717083	717083
	14	Gland O-Ring	1	1	030591	030591	030587	030591	030587	030587
	15	Stem	1	1	717060	717125	717140	717155	717141	717890
	16	Gate Bushing*	1	1	717378	717378	717383	717378	717383	717893
	17	Stem Adapter	1		717059	717059	717079	717059	717079	717079
	18	Dowel Pin	1		060921	060921	050071	060921	050071	050071
	19	Bearing	2	2	060810	060810	060808	060810	060808	060808
	20	Bearing Race	4	4	060811	060811	060809	060811	060809	060809
	21	Bearing Housing	1		717058	717058	717082	717058	717082	717082
	22	Grease Seal	1		060603	060603	060603	060603	060603	060603
	23	O-Ring*	1		030190	030190	030609	030190	030614	030609
	24	O-Ring	1		030624	030624	030609	030624	030609	030609
	25	Back Seat Test Screw	1		717379	717379	717379	717379	717379	717379
	26	Plastic Injection Screw	1		717031	717031	717031	717031	717031	717031
	27	Grease Fitting	1		060876	060876	060876	060876	060876	060876
	28	Handwheel	1		717736	717735	717735	717735	717734	717733
	29	Handwheel Bolt	1		010249	010249	010249	010249	010249	010249
	30	Name Plate	1		060902	060902	060902	060902	060902	060902
	31	Drive Screws	4		010568	010568	010568	010568	010568	010568
	32	Handwheel Washer	1		717115	717115	717115	717115	717115	717115
	33	Alemite Fitting	1		060882	060882	060882	060882	060882	060882
	34	Pipe Plug 1/2" NPT	1		066326	066326	066326	066326	066326	066326
	35	Grease			803031	803031	803031	803031	803031	803031
Normal Temperature and Internal H2S Trim		Assy #'s Standard Ring Grooves Stainless Steel Ring Grooves			719168	719167	719165	719128	719129	719282
					719227	719235	719236	719220	719274	.....
	1	Body **	1		.....	.....	.....	.....	.....	.....
	2	Seat Assembly	2	2	717922	717920	717918	717916	717914	717912
	3	Seat	2	2	717875	717874	717873	717898	717908	717889
	4	O-Ring (Spring)	2	2	030928	030611	030601	030847	030608	030599
	5	Elastomeric II Face Seal	2	2	718187	718186	718185	718187	718186	718185
	7	Gate	1	1	717466	717465	717463	717377	717906	717887
	8	Bonnet Gasket	1	1	050388	050387	050383	050388	050385	050382
	9	Bonnet	1		717118	717091	717122	717092	717123	717885
	15	Stem	1	1	717496	717376	717494	717376	717382	717891
	16	Gate Bushing	1	1	717378	717378	717383	717378	717383	717893
Arctic Temperature and Standard Trim		Assembly Numbers			719185	719184	719182	719179	719178	719176
	1	Body††	1		.....	.....	.....	.....	.....	.....
	9	Bonnet	1		717488	717487	717486	717483	717482	717480
	10	Bonnet Bolts	8		060452	060452	060450	060451	060450	060447
	15	Stem	1	1	717060	717125	717140	717155	717141	717490
Arctic Temperature and Internal H2S Trim	16	Gate Bushing	1	1	717378	717154	717153	717154	717363	718015
		Assy #'s Standard Ring Grooves Stainless Steel Ring Grooves			719264	719271	719270	719265	719273	719266
					719245	719258	719257		719260	.....
	1	Body††	1		.....	.....	.....	.....	.....	.....
	2	Seat Assembly	2	2	717922	717920	717918	717916	717914	717912
	7	Gate	1	1	717466	717465	717463	717377	717906	717887
	8	Bonnet Gasket	1	1	050388	050612	050608	050388	050385	717434
	9	Bonnet	1		717118	717849	717850	717062	717482	717094
	10	Bonnet Bolts †	8		060435	060452	060450	060434	060450	060431
	15	Stem	1	1	717060	717376	717494	717376	717382	717490
	16	Gate Bushing	1	1	717378	717378	717383	717378	717383	718015
	23	O-Ring	1		030190	030190	030609	.....	.....	.....

* Parts change for Arctic service and/or H2S service. **

† Use 2000 4-1/16" 10,000 psi valve. ††

Body uses standard trim part for this service.

Do not use normal temperature body for Arctic service.

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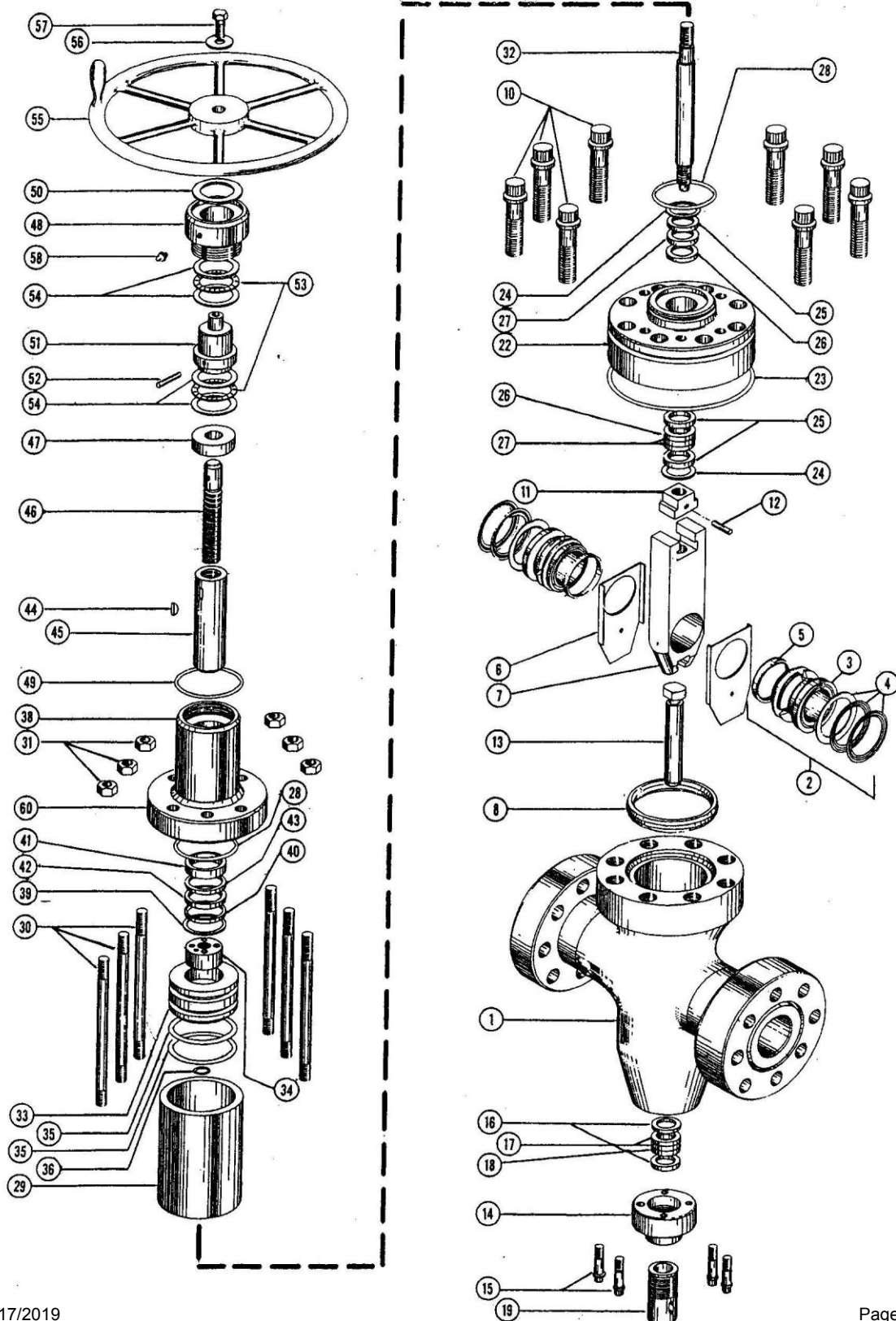
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TYPE DB Hydraulic-Operated Gate Valve Parts 5,000 & 10,000





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Type 'DB' Hydraulic Gate Valve Parts 5,000 & 10,000

Item No.	Description	Qty. Req.	No. Spare Parts Rec.	2-1/16" 5,000 PSI		2-1-1/16" 10,000 PSI	
				Normal Temperature		Normal Temperature	
				Standard	H2S	Standard	H2S
1	Body	1		---	---	---	---
2	Seat Assy.	2	2	717911	717912	717917	717918
3	Seat	2	2	717888	717889	717780	717865
4	O-Ring Spring	2	2	030599	030599	030601	030601
5	Elastomeric Face Seal	2	2	718185	718185	718185	718185
6	Grease Plate	2	2	718443	718443	718444	718444
7	Gate	1	1	717999	717998	717838	717599
8	Bonnet Gasket	1	1	050382	050382	050383	050383
10	Bonnet Bolts	8		060431	060431	060433	060433
11	Gate Bushing			717392	717392	717392	717392
12	Spring Pin	1		717399	717399	717399	717399
13	Balance Stem	1		717393	717393	717393	717393
14	Tail Rod Packing Retainer	1		717287	717287	717287	717287
15	Retainer Flange Bolts	4		060428	060428	060428	060428
16	Packing Ring	2	2	717390	717390	718226	718226
17	Stem Seal	2	2	062232	062232	062232	062232
18	Modular Bearing	1	1	062228	062228	062228	062228
19	Tail Rod Packing Gland	1		717290	717290	717290	717290
20	Name Plate	1		060902	060902	060902	060902
21	Drive Screws	4		010568	010568	010558	010558
22	Bonnet	1		717626	717626	717586	717586
23	O-Ring	1	1	030631	030631	060631	030631
24	Retaining Ring	2		040985	040985	040985	040985
25	Packing Ring	4	4	717390	717390	717390	717390
26	Modular Bearing	2	2	062228	062228	062228	062228
27	Stem Seal	3	3	062232	062232	062232	062232
28	O-Ring	2	2	030611	030611	030611	030611
29	Cylinder	1		717305	717305	717305	717305
30	Stud	6	0	717310	717310	717839	717839
31	Nut	6	0	020004	020004	020004	020004
32	Stem	1		717656	717656	717587	717587
33	Piston	1		717307	717307	717307	717307
34	Piston Nut	1		717308	717308	717308	717308
35	Piston Seal	2	2	062218	062218	062218	062218
36	O-Ring	1	1	030583	030583	030583	030583
37	Set Screw	1		010384	010384	010384	010384
Manual Override							
38	Override Cap	1		717312	717312	717312	717312
39	Retaining Ring	1		040999	040999	040999	040999
40	Bottom Packing Ring	1	1	717315	717315	717315	717315
41	Top Packing Ring	1	1	717316	717316	717316	717316
42	Override Seal	1	1	062220	062220	062220	062220
43	Modular Bearing	1	1	062238	062238	062238	062238
44	Woodruff Key1	1		062260	062260	062260	062260
45	Outside Stem	1		717314	717314	717314	717314
46	Inside Stem	1		717313	717313	717313	717313
47	Spacer	1		717317	717317	717317	717317
48	Bearing Housing	1		717082	717082	717082	717082
49	O-Ring	1	1	030609	030609	030609	030609
50	Grease Seal	1		060603	060603	060603	060603
51	Stem Adapter	1		717079	717079	717079	717079
52	Dowel Pin	1		050071	050071	050071	050071
53	Bearing	2	2	060808	060808	060808	060808
54	Bearing Race	4	4	060809	060809	060809	060809
55	Hand Wheel	1		717734	717734	717734	717734
56	Hand Wheel Washer	1		717715	717715	717715	717715
57	Hand Wheel Bolt	1		010249	010249	010249	010249
58	Alemite Fitting	1		060882	060882	060882	060882
59	Grease Fitting	1		060876	060876	060876	060876
60	M.O.R. Cap	1		---	---	---	---
Standard Cylinder Head							
61	Cylinder Head		---	---	---	---	---
62	Grease		---	---	---	---	---
63	Pipe Plug		---	---	---	---	---

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MCM OIL TOOLS, INC.

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TYPE DB Hydraulic-Operated Gate Valve Parts 5,000 & 10,000

Item No.	Body Seat Assembly Seat O-Ring (Spring)	Qty Req	No. Spare Parts Rec.	10,000 psi Working Pressure						5,000 psi Working Pressure					
				4 1/16" Bore			3 1/8" Bore			4 1/16" Bore			3 1/8" Bore		
				Normal Temperature		Arctic	Normal Temperature		Arctic	Normal Temperature		Arctic	Normal Temperature		Arctic
				Standard	H2S		Standard	H2S		Standard	H2S		Standard	H2S	
	Face Seal			719284	719226	719150	719255	719238	719107	719214	719221	.....	719205	719298	.....
1	Grease Plate	1													
2	Gate	2	2	717921	717922	(b)	717919	717920	(b)	717915	717916	(b)	717913	717914	(b)
3	Bonnet Gasket	2	2	717872	717875	(b)	717871	717874	(b)	7178971	717898	(b)	717907	717908	(b)
4	Bonnet Bolts	2	2	030928	(b)	(b)	030611	030611	(b)	030847	030847	(b)	030608	030608	(b)
5	Gate Bushing	2	2	718187	(b)	(b)	718186	718186	(b)	718187	718187	(b)	718186	718186	(b)
6	Spring Pin	2	2	717174	(b)	(b)	717128	(b)	(b)	717113	(b)	(b)	717110	717909	(b)
7	Balance Stem	1	1	717351	717527	(b)	717633	717661	(b)	717370	717403	(b)	717903	717904	(b)
8	Tall Rod Packing	1	1	050388	050613	(b)	050387	050612	(b)	050388	050613	(b)	050385	050610	(b)
10	Retainer Flange	8(c)		060435	(b)	060452	060435	(b)	060452	060434	(b)	(b)	060433	(b)	(b)
11	Packing Ring	1	1	717404	(b)	(b)	717404	(b)	(b)	717404	(b)	(b)	717392	(b)	(b)
12	Stem Seal	1		060929	717407	(b)	060929	717407	(b)	060929	717407	(b)	060930	717399	(b)
13	Modular Bearing	1	1	717353	717408	717408	717353	717408		717289	717405	717405	717288	718022	717393
14	Tall Rod Packing Gland	1		717354	(b)	717394	717354	(b)	(b)	717354	(b)	(b)	717287	(b)	(b)
15	Name Plate	4		060428	(b)	(b)	060428	(b)	060445	060428	(b)	060445	060428	(b)	060445
16	Drive Screws	2	2	717293	(b)	(b)	717293	(b)	(b)	717293	(b)	(b)	717292	(b)	(b)
17	Bonnet	2	2	062230	(b)	(b)	062230	(b)	(b)	062230	(b)	(b)	062232	(b)	(b)
18	O-Ring	1	1	062229	(b)	(b)	062229	(b)	(b)	062229	(b)	(b)	062228	(b)	(b)
19	Retaining Ring	1		717356	(b)	(b)	717356	(b)	(b)	717356	(b)	(b)	717290	(b)	(b)
20NI	Packing Ring	1		717400	(b)	(b)	717400	(b)	(b)	717400	(b)	(b)	060902	(b)	(b)
21NI	Modular Bearing	4		010568	(b)	(b)	010568	(b)	(b)	010568	(b)	(b)	010568	(b)	(b)
22	Stem Seal	1		717364	(b)	717524	717632	(b)		717371	(b)	717528	717304	(b)	717391
23	O-Ring	1	1	030639	(b)	(b)	030637	(b)	(b)	030639	(b)	(b)	030632	(b)	(b)
24	Cylinder	2		040989	(b)	(b)	040989	(b)	062098	040989	(b)	(b)	040985	040985	(b)
25	Stud	4	4	717358	717400	(b)	717358	717400	(b)	717358	717400	717400	717311	717390	(b)
26	Nut	2	2	062229	(b)	(b)	062229	(b)	(b)	062229	(b)	(b)	062228	(b)	(b)
27	Stem	3	3	062230	(b)	(b)	062230	(b)	(b)	062230	(b)	(b)	062232	(b)	(b)
28	Piston	2	2	030617	(b)	(b)	030617	(b)	(b)	030617	(b)	(b)	030611	(b)	(b)
29	Piston Nut	1		717366	(b)	(b)	717366	(b)	(b)	717366	(b)	(b)	717305	(b)	(b)
30	Piston Seal	6(d)		717357	(b)	717402	717357	(b)		717357	(b)	717402	717310	(b)	717389
31	O-Ring	6(d)		020004	(b)	(b)	020004	(b)	(b)	020004	(b)	(b)	020004	(b)	(b)
32	Set Screw-Socket	1		717363	717401	717401	717363	717401		717363	717401	717401	717306	717388	717388
33	Set Screw-Socket	1		717360	(b)	(b)	717360	(b)	(b)	717360	(b)	(b)	717307	(b)	(b)
34	Override Cap	1		717308	(b)	(b)	717308	(b)	(b)	717308	(b)	(b)	717308	717309	(b)
35	Retaining Ring Ring	2	2	062276	(b)	(b)	062276	(b)	(b)	062276	(b)	(b)	062218	(b)	(b)
36NI	Bottom Packing	1	1	030583	(b)	(b)	030583	(b)	(b)	030583	(b)	(b)	030583	(b)	(b)
37NI	Top Packing Ring	1		010384	(b)	(b)	010384	(b)	(b)	010384	(b)	(b)	010384	(b)	(b)
38	Modular Bearing	1		717365	(b)	(b)	717365	(b)	(b)	717368	(b)	(b)	717312	(b)	(b)
39	Woodruff Key	1		040999	(b)	(b)	040999	(b)	(b)	040999	(b)	(b)	040999	(b)	(b)
40	Outside Stem	1	1	717315	(b)	(b)	717315	(b)	(b)	717315	(b)	(b)	717315	(b)	(b)
41	Inside Stem	1	1	717316	(b)	(b)	717316	(b)	(b)	717316	(b)	(b)	717316	(b)	(b)
42	Spacer	1	1	062220	(b)	(b)	062220	(b)	(b)	062220	(b)	(b)	062220	(b)	(b)
43	Bearing Housing	1	1	062238	(b)	(b)	062238	(b)	(b)	062238	(b)	(b)	062238	(b)	(b)
44	O-Ring	1		062260	(b)	(b)	062260	(b)	(b)	062260	(b)	(b)	062260	(b)	(b)
45	Grease Seal	1		717361	(b)	(b)	717361	(b)	(b)	717361	(b)	(b)	717314	(b)	(b)
46	Stem Adapter	1		717359	(b)	(b)	717359	(b)	(b)	717359	(b)	(b)	717313	(b)	(b)
47	Dowel Pin	1		717317	(b)	(b)	717317	(b)	(b)	717317	(b)	(b)	717317	(b)	(b)
48	Bearing	1		717082	(b)	(b)	717082	(b)	(b)	717082	(b)	(b)	717082	(b)	(b)
49	Bearing Race	1	1	030609	(b)	(b)	030609	(b)	(b)	030609	(b)	(b)	030609	(b)	(b)
50	Handwheel	1		060603	(b)	(b)	060603	(b)	(b)	060603	(b)	(b)	060603	(b)	(b)
51	Handwheel Washer	1		717079	(b)	(b)	717079	(b)	(b)	717079	(b)	(b)	717079	(b)	(b)
52	Handwheel Bolt	1		050071	(b)	(b)	050071	(b)	(b)	050071	(b)	(b)	050071	(b)	(b)
53	Alemite Fitting	2	2	060808	(b)	(b)	060808	(b)	(b)	060808	(b)	(b)	060808	(b)	(b)
54	Grease Fitting	4	4	060809	(b)	(b)	060809	(b)	(b)	060809	(b)	(b)	060809	(b)	(b)
55	M.O.R. Cap	1		717734	(b)	(b)	717734	(b)	(b)	717734	(b)	(b)	717734	(b)	(b)
56	M.O.R. Cap	1		717115	(b)	(b)	717115	(b)	(b)	717115	(b)	(b)	717115	(b)	(b)
57	Cylinder Head	1		010249	(b)	(b)	010249	(b)	(b)	010249	(b)	(b)	010249	(b)	(b)
58	Grease	1		060882	(b)	(b)	060882	(b)	(b)	060882	(b)	(b)	060882	(b)	(b)
59NI	Pipe Plug	1		060876	(b)	(b)	060876	(b)	(b)	060876	(b)	(b)	060876	(b)	(b)
60		1		717362	(b)	(b)	717368	(b)	(b)	717365	(b)	(b)			
Standard Cylinder Head															
61NI		1		717308	(b)	(b)	717309	(b)	(b)	717308	(b)	(b)	717309	(b)	(b)
62NI															(b)
63NI															(b)



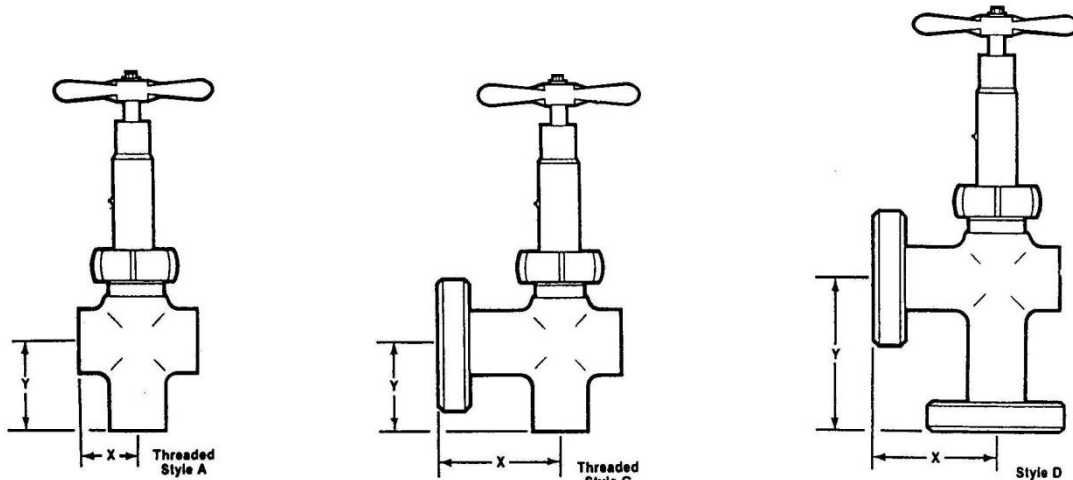
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Cameron⁺ Style 'H2' Chokes



Inlet	Outlet	Working Pressure	Body	Dimensions	
				X	Y
1" Maximum Orifice					
2" LP	2" LP	3000	A	3 7/16"	4 9/16"
2" LP	2" LP	5000	A	3 7/16"	4 9/16"
2 1/16" 2000 Flg	2" LP	2000	C	6 11/16"	4 9/16"
2 1/16" 5000 Flg	2" LP	3000	C	6 7/8"	4 9/16"
2 1/16" 5000 Flg	2" LP	5000	C	6 7/8"	4 9/16"
2 1/16" 2000 Flg	2 1/16" 2000 Flg	2000	D	6 11/16"	7 13/16"
2 1/16" 5000 Flg	2 1/16" 5000 Flg	3000	D	6 7/8"	8"
2 1/16" 5000 Flg	2 1/16" 5000 Flg	5000	D	6 7/8"	8"
2 9/16" 5000 Flg	2 9/16" 5000 Flg	3000	D	6 15/16"	8 1/4"
2 9/16" 5000 Flg	2 9/16" 5000 Flg	5000	D	6 15/16"	8 1/4"
3 1/8" 3000 Flg	3 1/8" 3000 Flg	3000	D	7 13/16"	8 15/16"
3 1/8" 5000 Flg	3 1/8" 5000 Flg	5000	D	9 11/16"	9 9/16"
1 13/16" 10,000 Flg	1 13/16" 10,000 Flg	10,000	D	7 11/16"	8 13/16"
2 1/16" 10,000 Flg	2 1/16" 10,000 Flg	10,000	D	7 11/16"	8 13/16"
2 9/16" 10,000 Flg	2 9/16" 10,000 Flg	10,000	D	8 3/16"	9 5/16"
1 13/16" 15,000 Flg	1 13/16" 15,000 Flg	15,000	D	8 15/32"	9 5/8"
2 1/16" 15,000 Flg	2 1/16" 15,000 Flg	15,000	D	8 7/8"	10 5/16"
2 9/16" 15,000 Flg	2 9/16" 15,000 Flg	15,000	D	10 1/2"	11 3/4"
3 1/16" 15,000 Flg	3 1/16" 15,000 Flg	15,000	D	10 11/32"	11 5/8"
2" Maximum Orifice					
3" L.P.	3" L.P.	3000	A	4 1/2"	7"
3 1/8" 5000 Flg	3" LP	3000	C	8 7/8"	7"
3 1/8" 5000 Flg	3" LP	3000	C	8 7/8"	7"
2 1/16" 5000 Flg	2 1/16" 5000 Flg	5000	D	8 15/16"	11 7/16"
2 9/16" 5000 Flg	2 9/16" 5000 Flg	5000	D	8 7/8"	11 3/4"
3 1/8" 2000 Flg	3 1/8" 2000 Flg	2000	D	8 7/8"	11 3/8"
3 1/8" 3000 Flg	3 1/8" 3000 Flg	3000	D	8 7/8"	11 3/8"
3 1/8" 5000 Flg	3 1/8" 5000 Flg	5000	D	8 7/8"	11 3/8"
4 1/16" 3000 Flg	4 1/16" 3000 Flg	3000	D	10 3/8"	11 5/8"
4 1/16" 5000 Flg	4 1/16" 5000 Flg	5000	D	10 1/8"	12 5/8"
2 1/16" 10,000 Flg	2 1/16" 10,000 Flg	10,000	D	10 3/8"	12"
2 9/16" 10,000 Flg	2 9/16" 10,000 Flg	10,000	D	10 3/8"	11 3/4"
3 1/16" 10,000 Flg	3 1/16" 10,000 Flg	10,000	D	10 3/8"	11 3/4"
4 1/16" 10,000 Flg	4 1/16" 10,000 Flg	10,000	D	9 15/16"	11 1/2"
3" Maximum Orifice					
4" LP	4" LP	3000	A	6 1/4"	7 3/4"
4 1/16" 3000 Flg	4" LP	3000	C	9 1/4"	7 3/4"
3 1/8" 5000 Flg	3 1/8" 5000 Flg	5000	D	14 7/16"	15 15/16"
4 1/16" 3000 Flg	4 1/16" 3000 Flg	3000	D	9 1/4"	9 1/4"
4 1/16" 5000 Flg	4 1/16" 5000 Flg	5000	D	12 1/4"	12 1/4"



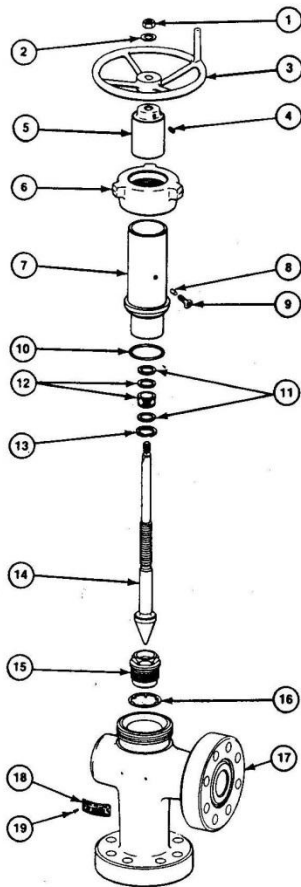
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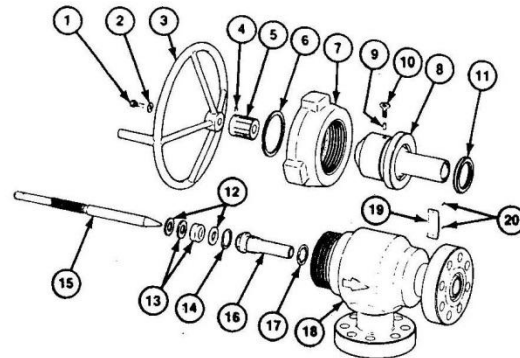
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Cameron⁺ Style 'H2' Adjustable Choke Parts



Typical 2000 through 10,000 psi
WP H2 Adjustable Choke

Typical 2,000 — 10,000 psi WP 'H2'
Adjustable Choke



1" Maximum Orifice, 15,000 psi
WP H2 Adjustable Choke

Item No.	Description	Standard Trim	Super Trim
1	Hex Head Bolt	6053-58	6053-58
2	Washer	7799-13	7799-13
3	Handwheel	21225	21225
4	Set Screw	10019-05	10019-05
5	Indicator	19692	19692
6	Retainer Ring	15345-12	15345-12
7	Bonnet Nut	40473-02	40473-02
8	Bonnet	BONNET-H2A2116-15-21FLG	BONNET-H2A2116-15-21FLG
9	Plug	21226	21226
10	Thumb Screw	14144-01	14144-01
11*	Bonnet Gasket	19331-01	19331-01
12*	Junk Ring	21817-12	21817-12
13*	J-Packing	22176-01	22176-06
14*	Retainer Ring	15345-07	15345-07
15*	Needle	21223-01	663922-01
16*	Seat	36905-01-64	674220-64
17	Gasket	660138-01	660138-01
18	Body	BODY-H2A2116-15-21FLG	BODY-H2A2116-15-21FLG
19	Nameplate	19052	19052
20	Drive Screw	702525-11	702525-11

*Recommended spare parts

Item No.	Description	1" Maximum Orifice 2000 through 10,000 PSI		2" Maximum Orifice 2000 through 5000 PSI		2" Maximum Orifice 10,000 PSI		3" Maximum Orifice 2000 through 5000 PSI	
		Standard Trim	Super Trim	Standard Trim	Super Trim	Standard Trim	Super Trim	Standard Trim	Super Trim
1	Hex Bolt or Nut	6053-58	6053-58	12955-10-10	12955-10-10	12955-10-10	12955-10-10	12955-10-10	12955-10-10
2	Washer	7799-13	7799-13	7799-14	7799-14	7799-14	7799-14	7799-14	7799-14
3	Handwheel	14175-03	14175-03	20735-01	20735-01	20736-01	20736-01	19883	19883
4	Set Screw	10019-13	10019-13	10019-14	10019-14	10019-14	10019-14	10019-14	10019-14
5	Indicator	19692	19692	20734	20734	20734	20734	19881	19881
6	Bonnet Nut	14109	14109	14495	14495	40473-03	40473-03	40474-01	40474-01
7	Bonnet	BONNET-H2A2116-2/10-21FLG		BONNET-H2A3185-32FLG-FRG		BONNET-H2A311610-32FLG		BONNET-H2A41165-43FLG	
8	Plug	19690	19690	19690	19690	19690	19690	19690	19690
9	Thumb Screw	10019-06	10019-06	14144-01	14144-01	14144-01	14144-01	14144-01	14144-01
10*	O-Ring	OR-329	OR-329	OR-338	OR-338	OR-338	OR-338	OR-348	OR-348
11*	Junk Ring	21817-12	21817-12	21817-81	21817-81	21817-81	21817-81	21792-23	21792-23
12*	J-Packing	22176-06	22176-06	22176-08	22176-08	22176-08	22176-08	22176-08	22176-08
13*	Retainer Ring	15345-07	15345-07	18572-64	18572-64	18572-64	18572-64	33186-10	33186-10
14*	Needle	19688-01	663037-01	20731	681678-01	20731	681678-01	19882	683449-01
15*	Seat	38132	671635	40586	678605	40586	678605	19887	683450
16	Gasket	660138-01	660138-01	660138-02	660138-02	14181-02	660138-02	660138-03	660138-03
17	Body	BODY-H2A211610-21FLG		BODY-H2A3185-32FLG-FRG		BODY-H2A311610-32FLG		BODY-H2A41165-43FLG-FRG	
18	Nameplate	19052	19052	19052	19052	19052	19052	19052	19052
19	Drive Screw	702525-09	702525-09	702525-11	702525-11	702525-11	702525-11	702525-09	702525-09



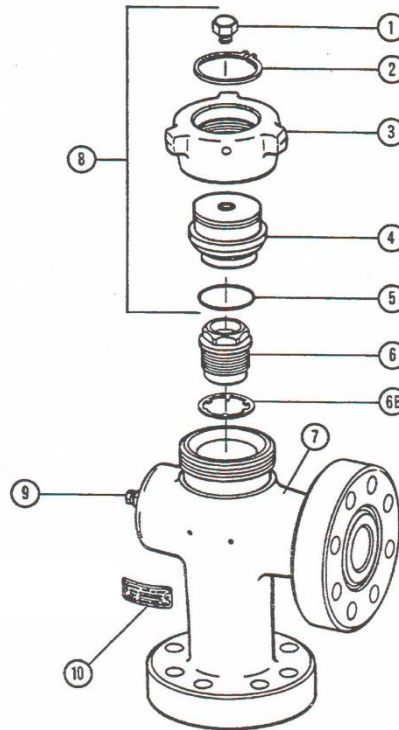
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Cameron⁺ Style 'H2' Positive Choke Parts



Item No.	Description	1" Maximum Orifice 5,000 PSI	1" Maximum Orifice 10,000 PSI	2" Maximum Orifice 5,000 PSI	2" Maximum Orifice 10,000 PSI
1	Pipe plug	5930-01 ½"	5930-01 ½"	5930-01 ½"	5930-01 ½"
2	Retainer Ring	1039	1039	RETRINGH2P3-10-1/2NPT	RETRINGH2P3-10-1/2NPT
3	Bonnet Nut	14109	14109	14495	40473-03
4	Blanking Cap	BLANKCAPH2P2-5/10-1MAX	BLANKCAPH2P2-5/10-1MAX	BLANKCAPH2P3-10-1/2NPT	BLANKCAPH2P3-10-1/2NPT
5	O-Ring	OR-329	OR-329	OR-338	OR-340
6	Flow Bean	*	*	*	*
6B	Gasket	660138-01	660138-01	660138-01	660138-01
7	Body	BODY-H2A21165-21FLG-FRG	BODY-H2A211610/15-21FLG	BODY-H2A3185-32FLG-FRG	BODY-H2A311610-32FLG
8	Blanking Plug Assy	**	**	**	**
9	Bleed Plug	-	-	-	-
10	NamePlate	19052-01	19052-01	19052-01	19052-01

*Not part of choke assembly, sold separately

**Please order any required parts separately, MCM does not sell complete assemblies for this item

Accessories	
Description	Part Number
Seat / Bean Wrench, 1" Max Orifice	WRENCHH2SEAT1"ORIFICE
Seat / Bean Wrench, 2" Max Orifice	WRENCHH2SEAT1"ORIFICE
Seat / Bean Wrench, 3" Max Orifice	WRENCHH2SEAT1"ORIFICE



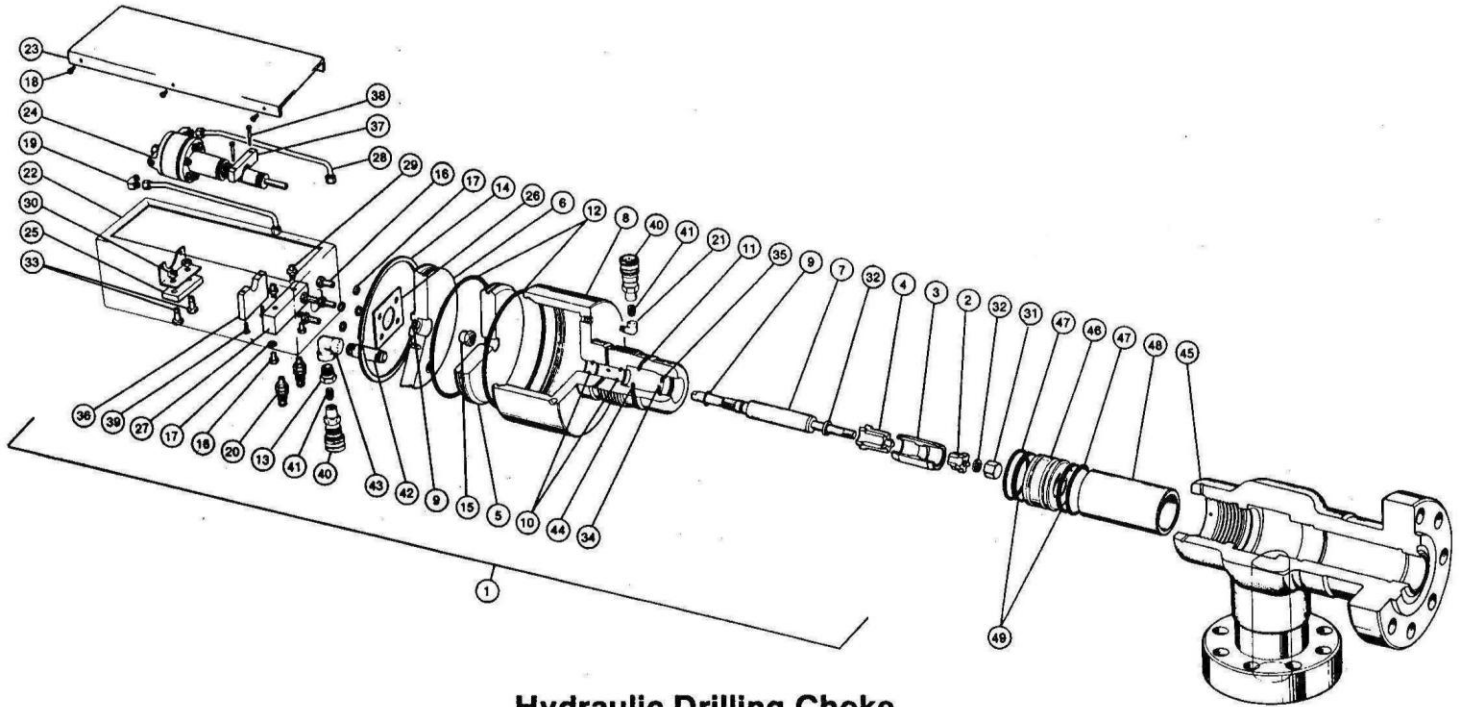
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Cameron⁺ Style Hydraulic Drilling Choke



Hydraulic Drilling Choke

ITEM	DESCRIPTION		
1	HYDRAULIC ACTUATOR	26	SPACER
2	FRONT RETAINER	27	ADAPTER
3	GATE	28	TUBING
4	REAR RETAINER	29	CONNECTOR
5	PISTON	30	NUT
6	COVER	31	RETAINER CAP
7	ACTUATOR ROD	32	LOCK WASHER
8	ACTUATOR BODY	33	SCREW
9	O-RING	34	BACK-UP RING
10	O-RING	35	O-RING
11	O-RING	36	LOWER STABILIZER MOUNT
12	O-RING	37	UPPER STABILIZER MOUNT
13	PIPE BUSHING	38	CAP SCREW
14	RETAINING RING	39	SCREW
15	LOCKNUT	40	QUICK-CONNECT
16	CAP SCREW	41	NIPPLE
17	LOCK WASHER	42	NIPPLE
18	SCREW	43	ELBOW
19	ELBOW	44	BACK-UP RING
20	QUICK-CONNECT	45	BODY
21	ELBOW	46	SEAT
22	HOUSING	47	O-RING
23	COVER	48	WEAR SLEEVE
24	REGULATOR	49	BACK-UP RING
25	SPACER MOUNT		

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Replacement Parts for Cameron⁺ Style Hydraulic Drilling Choke

Item	Part Description	Qty	3 1/8" 5,000	3 1/16" 10,000	3 1/16" 15,000	4 1/16" 10,000
1	Hydraulic Actuator	1	40992	40992	40947	40992
2	Front Retainer	1	40988	40988	40988	40988
3	Gate	1	614415-01	614415-01	614415-01	614415-01
4	Rear Retainer	1	40989	40989	40989	40989
5	Piston	1	40855	40855	40855	40855
6	Cover	1	40117	40117	40117	40117
7	Actuator Rod	1	40986	40986	40851	40986
8	Actuator Body	1	40987	40987	40856	40987
9	O-Ring	2	OR-114	OR-114	OR-114	OR-114
10	O-Ring	2	OR-218	OR-218	OR-218	OR-218
11	O-Ring	1	OR-241	OR-241	OR-241	OR-241
12	O-Ring	2	OR-370	OR-374	OR-374	OR-374
13	Pipe Bushing	4	50-30-449	50-30-449	50-30-449	50-30-449
14	Retaining Ring	1	33186-45	33186-45	33186-45	33186-45
15	Locknut	1	667172-23	667172-23	667172-23	667172-23
16	Cap Screw	1	702502-06-00-06	702502-06-00-06	702502-06-00-06	702502-06-00-06
17	Lock Washer	6	702529-11-02	702529-11-02	702520-11-02	702529-11-02
18	Screw	1	702511-11-00-08	702511-11-00-08	702511-11-00-08	702511-11-00-08
19	Elbow	4	40548-23	40548-23	40548-23	40548-23
20	Quick-Connect	1	40548-05	40548-05	40548-05	40548-05
21	Elbow	2	2085-8-4S	2085-8-4S	2085-8-4S	675029-12
22	Housing	1	615095-01	615095-01	615095-01	615095-01
23	Cover	1	614233-01	614233-01	614233-01	614233-01
24	Regulator	1	40958	40958	40958	40958
25	Spacer Mount	1	40107	40107	40107	40107
26	Spacer	1	40108	40108	40108	40108
27	Adapter	1	40109	40109	40109	40109
28	Tubing	1	97495-18	97495-18	97495-18	97495-18
29	Connector	1	54-15-191	54-15-191	54-15-191	54-15-191
30	Nut	1	1WY55	1WY55	1WY55	1WY55
31	Retainer Cap	1	40853	40853	40858	40853
32	Lock Washer	2	702529-11-02	702529-11-02	702529-11-02	702529-11-02
33	Cap Screw	1	702502-02-00-12	702502-02-00-12	702502-02-00-12	702502-02-00-12
34	Back-Up Ring	1	BU-241	BU-241	BU-241	BU-241
35	O-Ring	1	OR-226	OR-226	OR-226	OR-226
36	Lower Stabilizer Mount	1	41058-01	41058-01	41058-01	41058-01
37	Upper Stabilizer Mount	1	41058-02	41058-02	41058-02	41058-02
38	Cap Screw	1	702502-02-00-14	702502-02-00-14	702502-02-00-14	702502-02-00-14
39	Cap Screw	1	702502-02-00-16	702502-02-00-16	702502-02-00-16	702502-02-00-16
40	Quick Connect	4	40548-16	40548-16	40548-16	40548-16
41	Nipple	4	33486-30	33486-30	33486-30	33486-30
42	Nipple	2	21012-45	21012-45	21012-45	21012-45
43	Elbow	1	675029-16	675029-16	675029-16	675029-16
44	Back-UP Ring	1	BU-341	BU-341	BU-341	BU-341
45	Body	1	40929	40929	41555	40929
46	Seat	1	614387-02	614387-02	614387-02	614387-02
47	O-Ring	1	OR-342	OR-342	OR-342	OR-342
48	Wear Sleeve	1	40841	40841	40841	40841
49	Back-Up Ring	1	BU-342	BU-342	BU-342	BU-342
50	UTW Packing	1	-	-	610112-14	-
51	Re-Ball-Up Ring	1	-	-	610108-08	Page 33 -



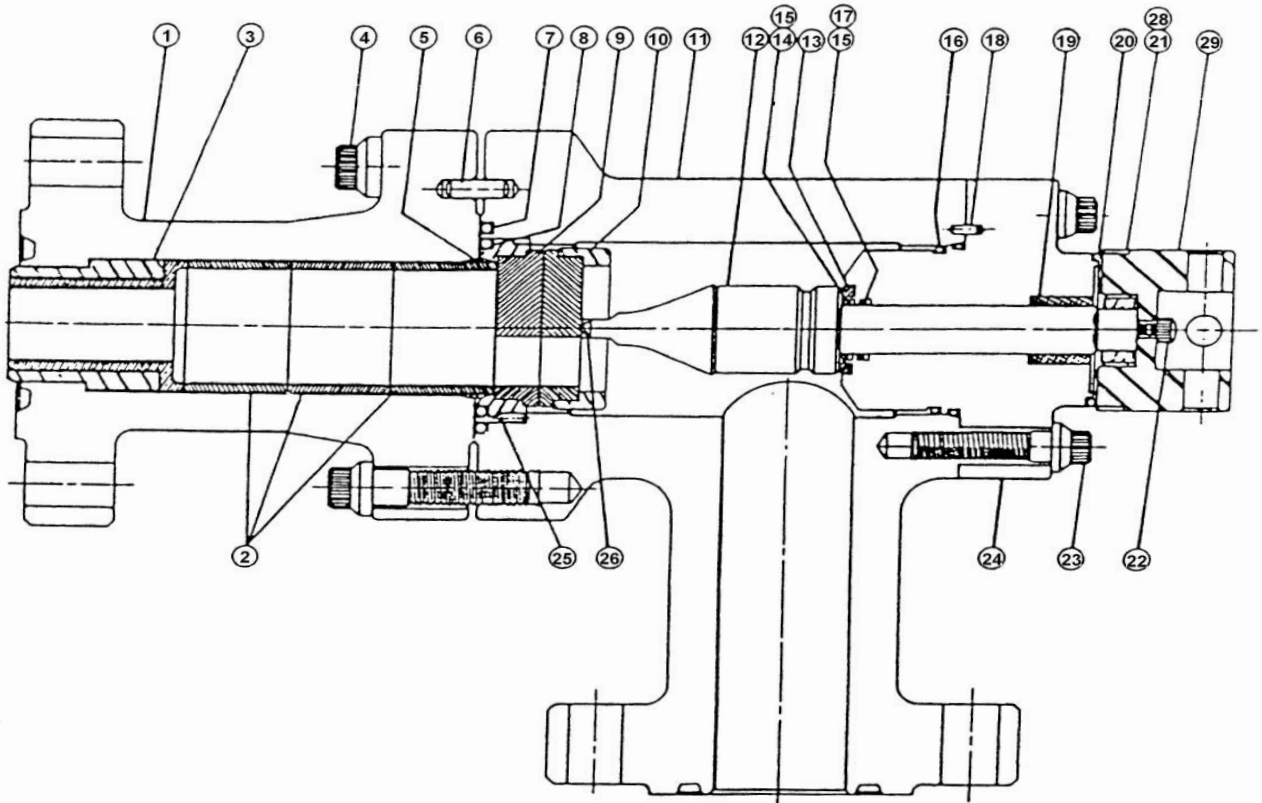
MCM OIL TOOLS, INC.

10422 W. Gulf Bank Rd., Houston, Texas 77040

Tel: 713-541-1212 Fax: 713-541-4664

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SWACO⁺ Style Drilling Choke Parts



Item	Qty.	Part Number	Description
1	1	94-36-230	Spool, Outlet 2-9/16" 10,000 PSI H2S
2	3	96-11-111	Sleeve, Wear 10,000 PSI Choke
3	1	96-11-216	Sleeve, Flange Protector Wear
4	16	14-04-183	Screw, Ferry HD
5	1	OR-151	O-Ring
6	2	94-36-200	Pin, 3/8"
7	1	OR-348	O-Ring
8	1	OR-342	O-Ring
9	1	96-11-215	Back Disc Assembly
10	1	96-11-214	Front Disc Assembly
11	1	94-36-105	Body, Choke 10,000 PSI H2S
12	1	94-36-130	Fork, Turning 10,000 PSI H2S W/Item 28
13	1	96-11-428	Thrust Bearing
14	1	39-67-915	O-Ring
15	2	BU-216	Ring Back Up
16	2	39-67-237	O-Ring
17	1	OR-216	O-Ring
18	2	94-36-207	Pin, 187 D
19	1	96-11-127	Shaft Bushing
20	1	OR-338	O-Ring
21	1	94-36-014	Calibration Band 1-9/16" Fully Open
22	1	14-08-083	Screw, SOC HD
23	12	14-04-163	Screw, Ferry HD
24	1	94-36-035	Bonnet W/Item 13 and 19, 10,000 PSI Choke H2S
25	1	58-67-261	Pin, Back Disc Super Choke 1/4" DIA
26	2	14-92-033	Screw, Drive
27	1	94-36-145	Handle, 5/8" X 16" (Not Shown)
28	1	94-36-207	Pin 187 D"
29	1	94-36-160	Head, Indicator, 10,000 PSI Choke
30	1	96-11-419	O-Ring Kit (Items: 5,7,8,14,15,16,17,20)



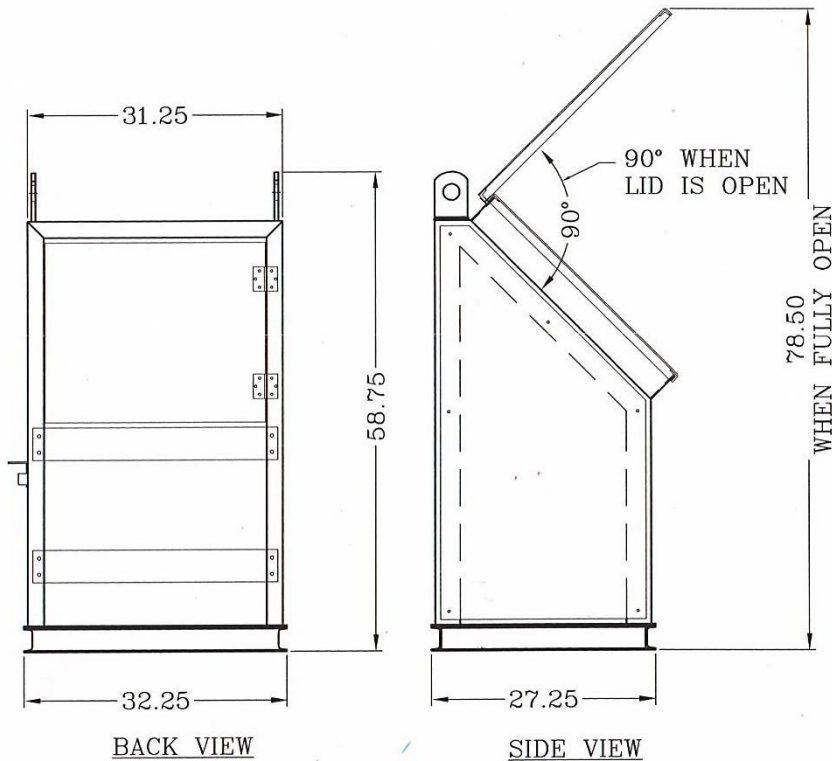
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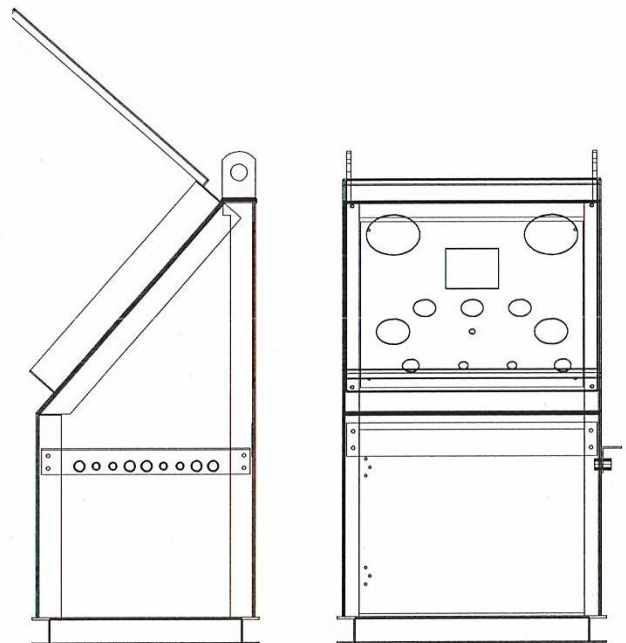
Control Consoles for Cameron⁺ and SWACO⁺ Style Drilling Chokes



** Please contact us for
specific control console
part information

Available Features:

- Available in Stainless Steel for Alloy painted Signal Red
- Single or Dual Choke Operation
- 4 or 6 Window Displays with Pump Stoke Counter
- Digital Gauges
- Digital Position Indicators
- Custom Gauges



SIDE VIEW

FRONT VIEW

APPROXIMATE ASSEMBLED
WEIGHT: 800 LBS



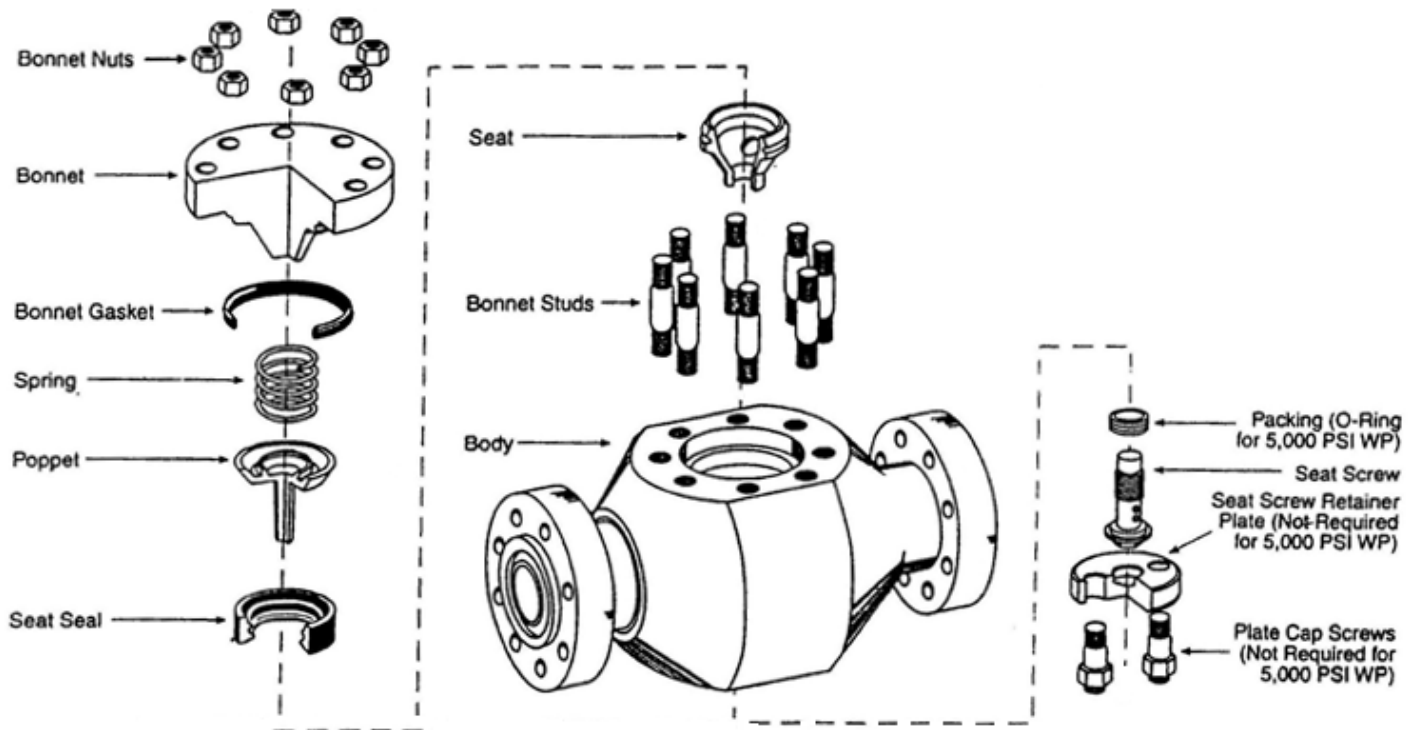
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Cameron⁺ Style Type 'R' Check Valve



Size and Working Pressure (PSI)	Trim	Poppet	Seat	Spring	Seat Seal	Bonnet Gasket	O-Ring	*Packing	Seat Screw	Retainer Plate	Retainer O-Ring
1 13/16" 10,000	Regular Trim	2306-01	21094-01	20300	20298	19060-07	—	21448-01	21116	—	—
	Super Trim	34209	668266	34211	20298	19060-07	—	21448-01	668265	—	—
	SST Trim	20306-02	21094-02	20300	20298	19060-07	—	21448-01	668265	—	—
1 13/16" 15,000	Regular Trim	20306-01	21094-01	20300	20298	19060-07	—	21448-01	21116	—	—
	Super Trim	34209	668266	34211	20298	19060-07	—	21448-01	668265	—	—
2 1/16" 5,000	Regular Trim	20306-01	20305-01	20300	20298	21793-16	OR-216	—	696126	—	20396-1
	Super Trim	34209	34212	34211	20298	21793-31	OR-216	—	19141-13	—	20396-1
	SST w/ Super	34209	34212	34211	20298	21793-31	OR-216	—	19141-13	—	20396-1
2 1/16" 10,000	Regular Trim	20306-01	21094-01	20300	20298	19060-07	—	21448-01	21116	21117	—
	Super Trim	34209	668266	34211	20298	19060-07	—	21448-01	668265	21117	—
	SST Trim	20306-02	21094-02	20300	20298	19060-07	—	21448-01	668265	21117	—
2 1/16" 15,000	Regular Trim	20306-01	21094-01	20300	20298	19060-07	—	21448-01	21116	21117	—
	Super Trim	34209	668266	34211	20298	19060-07	—	21448-01	668265	21117	—
	SST Trim	20306-02	21094-02	20300	20298	19060-07	—	21448-01	668265	21117	—
2 9/16" 10,000	Regular Trim	20306-01	21094-01	20300	20298	19060-07	—	21448-01	21116	—	—
	Super Trim	34209	668266	34211	20298	19060-07	—	21448-01	668265	—	—
2 9/16" 15,000	Regular Trim	20306-01	21094-01	20300	610544-02	19060-07	—	21448-01	21116	—	—
	Super Trim	44789-01	44791-01	610089-04	20398	19141-13	—	21448-01	44924-2	—	—
3 1/16" 15,000	Regular Trim	20402-01	44791-04	20400	20398	19060-08	—	21448-02	44924-6	—	—
	Super Trim	44789-02	44791-02	610089-03	20398	19141-13	—	21448-02	44924-2	—	—
3 1/8" 5,000	Regular Trim	20402-01	21401-01	20400	20398	21794-13	OR-223	—	20399	—	20396-2
	Super Trim	681803	681802	681800	20398	21794-18	OR-223	—	683674	—	20396-2
	SST Trim	20402-02	20401-02	20400	20398	21794-13	OR-223	—	683674	—	20396-2
3 1/16" 10,000	Regular Trim	20402-01	21401-01	20400	20398	19060-08	—	21448-02	21502	21117	—
	Super Trim	681803	681802	681800	20398	19060-08	—	21448-02	683674	21117	—
	SST Trim	20402-02	20401-02	20400	20398	19060-08	—	21448-02	683674	21117	—
4 1/16" 5,000	Regular Trim	20402-01	20401-01	20400	20398	19060-08	OR-223	—	20399	—	20396-2
	Super Trim	681803	681802	681800	20398	21794-18	OR-223	—	683674	—	20396-2
4 1/16" 10,000	Super Trim	681803	681802	681800	20398	19060-08	—	21448-02	683674	—	—



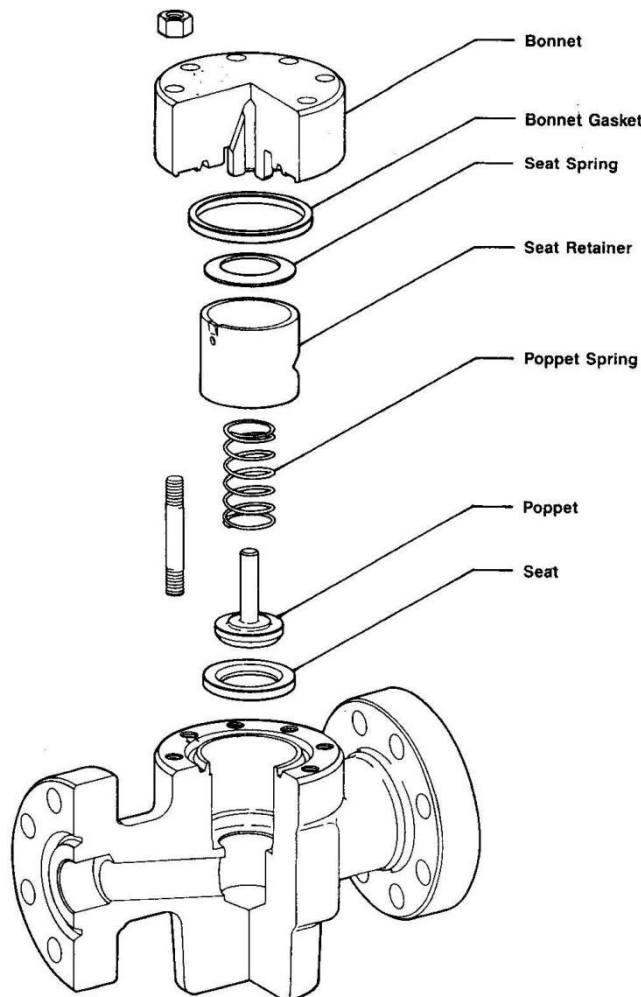
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Cameron⁺ Style 'MS' Check Valve



Size and Working Pressure (PSI)	Seat	Poppet	Poppet Spring	Retainer	Seat Spring	Bonnet Gasket
1 13/16" 10,000	611812-03 (Standard Trim)	611809-04 (Standard Trim)	611808-01	611810-01	611811-01	19141-44
1 13/16" 15,000						
1 13/16" 20,000						
2 1/16" 5,000						
2 1/16" 10,000						
2 1/16" 15,000						
2 1/16" 20,000	611812-01 (Super Trim)	611809-01 (Super Trim)	611808-01	611810-01	611811-01	19141-44
2 9/16" 5,000						
2 9/16" 10,000						
2 9/16" 15,000						
2 9/16" 20,000	611791-02 (Standard Trim)	611788-03 (Standard Trim)	611787-01	611789-01	611790-01	19141-10
3 1/8" 3,000						
3 1/8" 5,000						
3 1/16" 10,000						
3 1/16" 15,000						
3 1/16" 20,000						
4 1/16" 3,000	611791-01 (Super Trim)	611788-01 (Super Trim)	611787-01	611789-01	611790-01	19141-10
4 1/16" 5,000						
4 1/16" 10,000						
4 1/16" 15,000						

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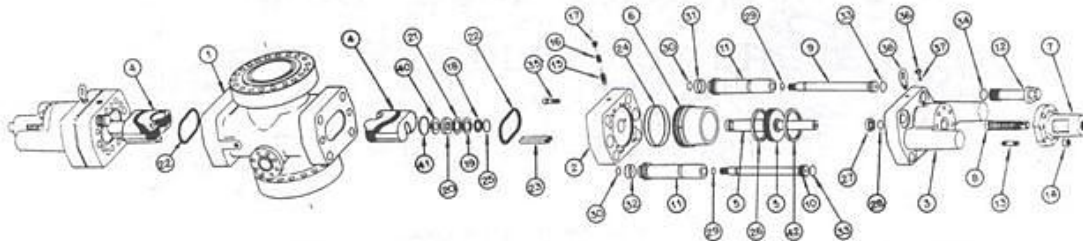
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Replacement Parts for Cameron⁺ Ram Type 'U' B.O.P



Item	Description	Qty	7 1/16" 3,000 psi Model II	7 1/16" 5,000 psi Model II	7 1/16" 10,000 psi Model II	7 1/16" 15,000 psi Model II	11" 3,000 psi Model II	11" 5,000 psi Model II	11" 10,000 psi Model II
1	Body	1	—	—	—	—	—	—	—
2	Intermediate Flange	2	30266-03	30266-03	30266-01	30266-01	30267-03	30267-03	30267-03
2a	Intermediate Flange shear		41499-03	41499-03	41499-01	41499-01	41457-03	41457-03	41457-03
3	Bonnet	2	30278-04	30278-03	30278-02	30278-01	30268-01	30268-02	30268-03
4	Ran Assembly	2	644216-()	644216-()	644216-()	644216-()	644219-()	644219-()	644219-()
5	Piston, Operating	2	667940	667940	667940	667940	673178	673178	673178
5a	Piston, Operating Shear		49116-01	49116-01	49116-01	49116-01	698914	698914	698914
6	Cylinder, Operating	2	30274-02	30274-02	30274-02	30274-02	30274-03	30274-03	30274-03
6a	Cylinder, Operating Shear		41365-02	41365-02	41365-02	41365-02	41365-03	41365-03	41365-03
7	Housing, Locking Screw	2	30308-01	30308-01	30308-01	30308-01	30308-02	30308-02	30308-02
8	Locking Screw	2	30326	30326	30326	30326	30365	30365	30365
8a	Locking Screw /Shear		49258-01	49258-01	49258-01	49258-01	46628-01	46628-01	46628-01
9	Piston,Ram Change/Open	2	30324	30324	30324	30324	30362	30362	30362
10	Piston Ram Change/Close	2	30325	30325	30325	30325	30363	30363	30363
11	Cylinder, Ram Change	4	30273-02	30273-02	30273-02	30273-02	30273-03	30273-03	30273-03
12	Bolt, Bonnet	8	30312-06	30312-02	30312-07	30312-01	30312-04	30312-03	30312-05
12a	Bolt, Bonnet / Shear		41366-06	41366-02	41366-07	41366-01	41366-04	41366-03	41366-05
13	Stud,Locking Screw Housing	16	38732-57-00-54	38732-57-00-54	38732-57-00-54	38732-57-00-54	38732-59-00-65	38732-59-00-65	38732-59-00-65
13a	Stud, Locking Screw Housing/Shear		12955-11-10	12955-11-10	12955-11-10	12955-11-10	12955-17-10	12955-17-10	12955-17-10
14	Nut, Locking Screw Housing	16	12955-11-10	12955-11-10	12955-11-10	12955-11-10	12955-17-10	12955-17-10	12955-17-10
15	Check Valve, Plastic Packing	2	680645-01	680645-01	680645-01	680645-01	680645-01	680645-01	680645-01
16	Screw Plastic Packing	2	5940-09	5940-09	5940-09	5940-09	5940-09	5940-09	5940-09
17	Pipe Plug Plastic packing	2	5930-05	5930-05	5930-05	5930-05	5930-05	5930-05	5930-05
18	Ring Plastic Packing	2	12469-36	12469-36	12469-36	12469-36	12469-38	12469-38	12469-38
19	Ring Plastic Energizing	2	18586-12	18586-12	18586-12	18586-12	18586-13	18586-13	18586-13
20	Seal ring Connecting Rod	2	11741-37	11741-37	21792-21	11741-37	11741-38	11741-38	11741-38
21	Ring Back-Up	4			21792-21	21792-21	21792-22	21792-22	21792-22
22	Seal Bonnet	2	46613-01	46613-01	46613-01	46613-01	46613-02	46613-02	46613-02
23	Pin Ram Guide	4	30313-02	30313-02	30313-02	30313-02	30313-03	30313-03	30313-03
24	O ring Operating Cylinder	4	6227-73-13-85	6227-73-13-85	6227-73-13-85	6227-73-13-85	6227-78-13-85	6227-78-13-85	6227-78-13-85
25	O ring Oper piston rod to int Flg	2	18492-92	18492-92	18492-92	18492-92	18492-91	18492-91	18492-91
26	Lip seal operating Piston	2	704774	704774	704774	704774	704773	704773	704772
27	Seal ring Tail Road	2	11741-32	11741-32	11741-32	11741-32	11741-33	11741-33	11741-33
28	O ring Wiping	2	6227-34-01-70	6227-34-01-70	6227-34-01-70	6227-34-01-70	6227-38-01-70	6227-38-01-70	6227-38-01-70
29	O ring ram change piston to Bonnet	4	18491-73	18491-73	18491-73	18491-73	6227-29-13-85	6227-29-13-85	6227-29-13-85
30	O ring ram change piston rod to int f	4	6227-32-13-85	6227-32-13-85	6227-32-13-85	6227-32-13-85	6227-34-13-85	6227-34-13-85	6227-34-13-85
31	O ring ram change Cyl to Int Flg	4	6227-41-13-85	6227-41-13-85	6227-41-13-85	6227-41-13-85	31423-25-13-85	31423-25-13-85	31423-25-13-85
32	O ring Ram change Cyl to bonnet	4	6227-45-13-85	6227-45-13-85	6227-45-13-85	6227-45-13-85	31423-26-13-85	31423-26-13-85	31423-26-13-85
33	O ring ram change piston	4	6227-35-13-85	6227-35-13-85	6227-35-13-85	6227-35-13-85	6227-38-13-85	6227-38-13-85	6227-38-13-85
34	O ring bonnet bolt retainer	8	6230-01-13-85	6230-03-13-85	6230-07-13-85	6230-10-01-90	6230-05-13-85	6230-07-13-85	6230-12-13-85
35	Cap Screw int Flg to Bonnet	16	702585-22-00-50	702585-22-00-50	702585-22-00-50	702585-22-00-50	702585-25-00-50	702585-25-00-50	702585-25-00-50
36	Gland Bleeder	2	17454-08	17454-08	17454-08	17454-08	17454-08	17454-08	17454-08
37	Plug Bleeder	2	17454-09	17454-09	17454-09	17454-09	17454-09	17454-09	17454-09
38	Lifting Eye	2	11849	11849	11849	11849	11849	11849	11849
39	Packing plastic	10	7650-08	7650-08	7650-08	7650-08	7650-08	7650-08	7650-08
40	Washer	2	2353-26	2353-26	2353-26	2353-26	2353-27	2353-27	2353-27
41	Ring retainer	2	18572-83	18572-83	18572-83	18572-83	18572-84	18572-84	18572-84
42	Wear Ring Operating Piston	2	49223-03	49223-03	49223-03	49223-03	49223-02	49223-02	49223-02
43	Space Shear		687117-01	687117-01	687117-01	687117-01	687117-02	687117-02	687117-02

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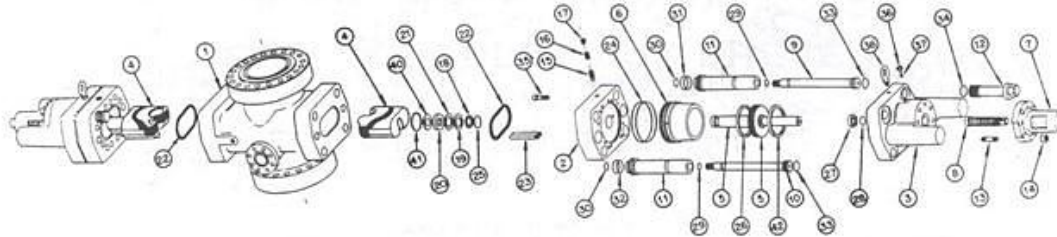
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Replacement Parts for Cameron⁺ Ram Type 'U' B.O.P



Item	Description	Qty	13 5/8" 3,000 psi Model II	13 5/8" 5,000 psi Model II	13 5/8" 10,000 psi Model II	13 5/8" 15,000 psi Model B	16 3/8" 3,000 psi Model B	16 3/4" 5,000 psi Model B
1	Body	1	—	—	—	—	—	—
2	Intermediate Flange	2	30270-01	30270-01	31216	698899	38944	38844
2a	Intermediate Flange shear		686242	686542	686767			41408
3	Bonnet	2	30284-02	30284-01	31241	691849	38843-02	38843-01
4	Ran Assembly	2	644225- ()	644225- ()	644225- ()	644228- ()	644231- ()	644231- ()
5	Piston, Operating	2	679816	679816	678512	698996	614274-01	689562
5a	Piston, Operating Shear		687542	687542	690791			694085
6	Cylinder, Operating	2	30274-01	30274-01	30274-01	30274-06	30274-06	30274-06
6a	Cylinder, Operating Shear		41362-01	41365-01	41365-01			41365-06
7	Housing, Locking Screw	2	30308-03	30308-03	30308-03	30308-06	30308-06	30308-06
8	Locking Screw	2	30307	30307	30307	695234	38901	38901
8a	Locking Screw /Shear		30846	30846	30846			695234
9	Piston,Ram Change/Open	2	30310	30310	31239	38847	38946	38847
10	Piston Ram Change/Close	2	30309	30309	31238	38848	38947	38848
11	Cylinder, Ram Change	4	30273-01	30273-01	30273-01	30273-06	30273-07	30273-06
12	Bolt, Bonnet	8	30312-09	30312-01	30312-12	30312-25	30312-17	30312-16
12a	Bolt, Bonnet / Shear		41366-09	41366-01	41366-12			41366-16
13	Stud,Locking Screw Housing	16	5918-76-10	5918-76-10	5918-76-10	5918-34-10	5918-78-10	5918-78-10
13a	Stud, Locking Screw Housing/Shear		38732-61-00-75	39732-61-00-75	39732-61-00-75			5918-34-10
14	Nut, Locking Screw Housing	16	12955-31-10	12955-31-10	12955-31-10	12955-31-10	12955-31-10	12955-31-10
15	Check Valve, Plastic Packing	2	680645-01	680645-01	680645-01	680645-01	680645-01	680645-01
16	Screw Plastic Packing	2	5940-09	5940-09	5940-09	5940-09	5940-09	5940-09
17	Pipe Plug Plastic packing	2	5930-05	5930-05	5930-05	5930-05	5930-05	5930-05
18	Ring Plastic Packing	2	12469-24	12469-24	12469-24	12469-24	12469-52	12469-52
19	Ring Plastic Energizing	2	18586-01	18586-01	18586-01	18586-01	18586-14	18586-14
20	Seal ring Connecting Rod	2	11741-38	11741-36	11741-36	11741-36	11741-44	11741-44
21	Ring Back-Up	4	—	—	21792-26	21792-26		
22	Seal Bonnet	2	46613-13	46613-13	46613-13	49272-02	46613-04	46613-04
23	Pin Ram Guide	4	30313-01	30313-01	30313-01	30313-08	30313-06	30313-06
24	O ring Operating Cylinder	4	6227-82-13-85	6227-82-13-85	6227-82-13-85	30101-54-13-85	30101-54-13-85	30101-54-13-85
25	O ring Oper piston rod to int Flg	2	18492-90	18492-90	18492-90	18492-90	30101-56-13-85	30101-56-13-85
26	Lip seal operating Piston	2	704772	704772	704772	704775	704775	704775
27	Seal ring Tail Road	2	11741-34	11741-34	11741-34	11741-45	11741-45	11741-45
28	O ring Wiping	2	6227-40-01-70	6227-40-01-70	6227-40-01-70	6227-45-13-85	6227-45-13-85	6227-45-13-85
29	O ring ram change piston to Bonnet	4	6227-31-13-85	6227-31-13-85	6227-31-13-85	6227-35-13-85	6227-35-13-85	6227-35-13-85
30	O ring ram change piston rod to int f	4	6227-36-13-85	6227-36-13-85	6227-36-13-85	31423-21-13-85	31423-21-13-85	31423-21-13-85
31	O ring ram change Cyl to Int Flg	4	6227-49-13-85	6227-49-13-85	6227-49-13-85	18491-03	18491-03	18491-03
32	O ring Ram change Cyl to bonnet	4	6227-88-13-85	6227-88-13-85	6227-88-13-85	6227-61-13-85	6227-61-13-85	6227-61-13-85
33	O ring ram change piston	4	6227-41-13-85	6227-41-13-85	6227-41-13-85	6227-47-13-85	6227-47-13-85	6227-47-13-85
34	O ring bonnet bolt retainer	8	6230-09-13-85	6230-10-010-90	6230-17-13-85	6230-23-13-85	6230-10-13-85	6230-15-13-85
35	Cap Screw int Flg to Bonnet	16	702585-25-00-44	702585-25-00-44	702585-25-00-54	702585-31-00-54	702585-31-00-44	702585-31-00-
36	Gland Bleeder	2	17454-08	17454-08	17454-08	17454-08	17454-08	17454-08
37	Plug Bleeder	2	17454-09	17454-09	17454-09	17454-09	17454-09	17454-09
38	Lifting Eye	2	11849	11849	11849	11849	11849	11849
39	Packing plastic	10	7650-08	7650-08	7650-08	7650-08	7650-08	7650-08
40	Washer	2	689523-01	689523-01	689523-01	689526-01	689523-02	689523-02
41	Ring retainer	2	18572-85	18572-85	18572-85	18572-85	18572-35	18572-35
42	Wear Ring Operating Piston	2	49223-01	49223-01	49223-01	49223-04	49223-04	49223-04
43	Space Shear		687117-03	687117-03	687117-03	687117-05		687117-05



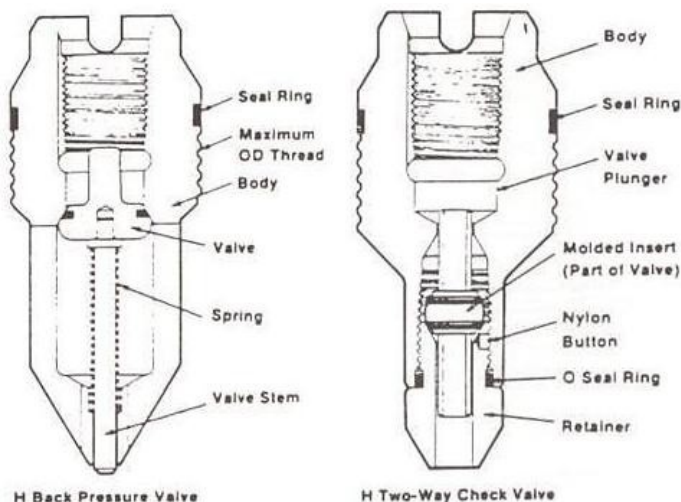
MCM OIL TOOLS, INC.

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Cameron⁺ Type 'H' Back Pressure Valve & 'HM' Two-Way Check Valve



Nominal Size	Maximum OD	H Back Pressure Valve		H Two-Way Check Valve		Tubing Hanger		Christmas Tree	
		OEM PART NUMBERS	MCM PART NUMBERS	OEM PART NUMBERS	MCM PART NUMBERS	Tubing OD	Min Bore BPV Threads	Min Vertical Bore	X-mas Tree Min Drift Dia.
1 1/4"	1.356"	30246-08	BPVH114DD	41612-01	BPVH-TW114DD	1.660"	1.286"	---	---
1 1/2"	1.605"	30246-02	BPVH112DD	41612-02	BPVH-TW112DD	1.900"	1.525"	1-5/8"	1.610"
1 3/4"	1.775"	30246-06	BPVH134DD	41612-03	BPVH-TW134DD	2.063"	1.695"	1-13/16"	1.795"
2"	2.020"	30246-01	BPVH200DD	41612-04	BPVH-TW200DD	2.375"	1.940"	2-1/16"	2.030"
2 1/2"	2.485"	30246-03	BPVH212DD	41612-05	BPVH-TW212DD	2.875"	2.405"	2-9/16"	2.500"
3"	3.030"	30246-04	BPVH300DD	41612-06	BPVH-TW300DD	3.500"	2.950"	3-1/8"	3.060"
3 1/2"	3.530"	30246-07	BPVH312DD	41612-07	BPVH-TW312DD	4.000"	3.450"	4-1/16"	3.580"
4"	3.980"	30246-05	BPVH400DD	41612-08	BPVH-TW400DD	4.500"	3.900"	4-1/16"	4.020"
4-3/32"	4.085"	30246-10	BPVH432DD	41612-09	BPVH-TW4332DD	----	----	----	----
4-3/8"	4.370"	---	BPVH438DD	41612-32?	BPVH-TW438DD	----	----	----	----
5"	5.010"	30246-13	BPVH500DD	41612-50	BPVH-TW500DD	----	4.930	----	----
6"	5.980"	---	BPVH600DD	---	BPVH-TW600DD	----	5.900	----	----
6-1/16"	6.062"	---	BPVH616DD	---	BPVH-TW616DD	----	----	----	----
6-5/16"	6.312"	30246-20	BPVH6516DD	41612-36	BPVH-TW6516DD	----	----	----	----

4130 Alloy for AA-General Service and DD-Sour Service*

17-4PH SS for BB-General Service, CC-General Service, EE-Sour Service* and FF-Sour Service*

Inconel 718 for HH-Sour Service*

*As defined by NACE Standard MR-01-75.



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Spare Parts for Cameron+ Type 'H' Back Pressure Valve

Description:	1-1/4"	1 1/2"	1-3/4"	2"	3"	3-1/2"	4"	4-3/32"	4-3/8"	5"	6"	6-1/16"	6-5/16"
Kit*	RK30246-02-06-08			RK30246-01-03-04-05-07							RK30246-20		
Piston	13130	13130	13130	13132	13132	13132	13132	13132	13132	13132	131421	131421	131421
Pin	13150	13150	13150	13152	13152	13152	13152	13152	13152	13152	13152	13152	13152
Spring	13162	13162	13162	13162	13162	13162	13162	13162	13162	13162	13162	13162	13162
OD Seal	132600	13260	13261	13261	13264	13265	13266	-	13267	13269	132610	1326100	132611
*Kit contains one each piston, pin and spring													

Spare Parts for Cameron+ 'HM' Two-Way Check Valve

Description:	1-1/4"	1 1/2"	1-3/4"	2"	3"	3-1/2"	4"	4-3/32"	4-3/8"	5"	6"	6-1/16"	6-5/16"
Kit*	RK41216-02/08										RK41216-36		
Piston	-	13142	13142	13142	13142	13142	13142	13142	13142	13142	131410	131410	131410
O-ring	-	13292	13292	13292	13292	13292	13292	13292	13292	13292	13292	13292	13292
Retainer Nut	-	13192	13192	13192	13192	13192	13192	13192	13192	13192	13192	13192	13192
OD Seal	132600	13260	13261	13261	13264	13265	13266	-	13267	13269	132610	1326100	132611
*Kit contains one each piston and o-ring													

Removal and Installation Tools

Removal and Installation Tools													
Description:	1-1/4"	1-1/2"	1-3/4"	2"	3"	3-1/2"	4"	4-3/32"	4-3/8"	5"	6"	6-1/16"	6-5/16"
REMOVAL TOOL	13880	13080		13082									
INSTALLATION TOOL (Not for removal of BPV)	-			13219									
Pins & Set Screws REMOVAL TOOL	13181												
Pins & Set Screws INSTALLATION TOOL	131810												