High Pressure Equipment

A GRACO Company

International Price List

Effective
January 2024

Standard Terms

F.O.B. — Erie, PA

Cash Terms: Net 30 Days

Credit Cards Accepted

1% interest per month to be charged on all past due accounts. Graco High Pressure Equipment Company reserves the right to change any of the prices shown in this list, without notice.

Not all available spare parts are shown in this price list. If you are unable to locate a given part, please contact our customer service department.

Quantity Discounts

1-10	Net
11-49	Less 5%
50-99	Less 10%
100+	Consult factory

Connection Components

All VALVES AND FITTINGS (except nipples) include necessary Glands and Collars (sleeves) where applicable. When Glands and Collars are not required, specify on order and deduct the following amounts *per opening:*

AF1	$6.30	LF4	$6.30	HF2	$6.30	XF4	$6.30
AF2	6.30	LF6	8.40	HF4	6.30	XF6	9.50
AF4	8.40	LF9	9.50	HF6	8.40		
AF6	8.40	LF12	15.80	HF9	9.50		
		LF16	23.10	HF16	23.10		

Tubing

1/16” O.D. and 1/8” O.D. tubing can be coiled for shipment. All other sizes must be shipped straight. When ordering please note the following limitations and advise lengths desired:

UPS	8 foot limit
FedEx Ground	9 foot limit
FedEx Express	10 foot limit
DHL	9.5 foot limit
Motor Freight	No limit

Coning and Threading Charge

1/8” to 9/16” Tubing	$15.50/end
3/4” and 1” Tubing	36.50/end
1.5” Tubing	75.00/end

Autofrettage Charge

$ 50.00 per end includes coning and threading

Certifications

Note: Price includes shipment via first class mail. Other certifications available upon request. Consult factory for price information and availability.

Chemical & Physical Test Reports	$30.00
Certificate of Test	30.00
Certificate of Conformance	30.00
Tubing Specification	30.00
SGS Certificate	30.00
ABS Approval	Quoted by Factory
DNV Approval	Quoted by Factory
Lloyds Approval	Quoted by Factory

High Pressure Equipment
A GRACO® Company

Low Pressure Fittings & Tubing

Taper Seal Valves (Catalog Page 10)

15-11AF1	$	198.40
15-11AF2	$	199.72
10-11AF4	$	205.03
10-11AF6	$	217.11
15-12AF1	$	199.72
15-12AF2	$	201.05
10-12AF4	$	209.02
10-12AF6	$	217.11
15-13AF1	$	213.00
15-13AF2	$	250.32
10-13AF4	$	259.61
10-13AF6	$	266.26
15-14AF1	$	213.00
15-14AF2	$	246.33
10-14AF4	$	255.63
10-14AF6	$	266.26
15-15AF1	$	372.76
15-15AF2	$	376.87
10-15AF4	$	382.18
10-15AF6	$	400.78

Taper Seal Fittings (Catalog Page 12)

Elbows

15-22AF1	$	66.54
15-22AF2	$	70.64
10-22AF4	$	91.90
10-22AF6	$	102.52

Tees

15-23AF1	$	85.25
15-23AF2	$	90.56
10-23AF4	$	117.13
10-23AF6	$	129.20

Crosses

15-24AF1	$	107.95
15-24AF2	$	113.26
10-24AF4	$	141.16
10-24AF6	$	159.76

Taper Seal Bulkhead Couplings

15-21AF1-B	$	119.78
15-21AF2-B	$	125.10
10-21AF4-B	$	138.51
10-21AF6-B	$	143.82

Taper Seal Caps

15-21AF1-C	$	42.63
15-21AF2-C	$	42.63
10-21AF4-C	$	42.63
10-21AF6-C	$	46.61

Taper Seal Line Filters (Catalog Page 14)

15-51AF1	$	276.89
15-51AF2	$	276.89
10-51AF4	$	330.13
10-51AF6	$	344.86

Taper Seal Ball Check Valves (Catalog Page 14)

15-41AF1	$	199.72
15-41AF2	$	198.40
10-41AF4	$	205.03
10-41AF6	$	220.97

Taper Seal Soft Seat Check Valves (Catalog Page 14)

15-41AF1-T	$	220.97
15-41AF2-T	$	222.42
10-41AF4-T	$	217.11
10-41AF6-T	$	233.05

Taper Seal Safety Heads (Catalog Page 15)

10-61AM4	$	186.44
10-61AM6	$	190.43
15-63AF1	$	268.92
15-63AF2	$	271.57
10-63AF4	$	278.33
10-63AF6	$	284.86
15-61AF1	$	227.73
15-61AF2	$	230.39
10-61AF4	$	234.26
10-61AF6	$	242.35

Taper Seal Rupture Discs (Catalog Page 16)

1,500 to 5,000 psi	$	65.32
5,500 to 15,000 psi	$	85.22

Taper Seal Connection Components (Catalog Page 17)

Glands

15-2AM1	$	10.63
15-2AM2	$	12.08
10-2AM4	$	13.28
10-2AM6	$	14.73

Sleeves

15-2A1	$	6.76
15-2A2	$	9.42
10-2A4	$	10.63
10-2A6	$	13.28

Plugs

15-7AM1	$	9.42
15-7AM2	$	13.28
10-7AM4	$	14.73
10-7AM6	$	14.73

Pipe Connection Valves (Catalog Page 20)

10-11NFA	$	187.77
10-11NFB	$	187.77
10-11NFC	$	189.09
10-11NFD	$	287.51
10-12NFA	$	189.09
10-12NFB	$	189.09
10-12NFC	$	190.43
10-12NFD	$	290.17

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Pipe Connection Valves
(Catalog Page 21)

15F-11NFA	$ 183.67
15F-11NFB	$ 183.67
15F-11NFC	$ 183.67
15F-11NFD	$ 282.20
10F-11NFF	$ 1,218.13
10F-11NFH	$ 1,624.21
15F-12NFA	$ 183.67
15F-12NFB	$ 183.67
15F-12NFC	$ 183.67
15F-12NFD	$ 286.30
10F-12NFF	$ 1,236.85
10F-12NFH	$ 1,625.54

NPT Fittings

Elbows

15-22NFA 1/8" NPT	$ 79.94
15-22NFB 1/4" NPT	$ 79.94
15-22NFC 3/8" NPT	$ 79.94
15-22NFD 1/2" NPT	$ 9,056.00
10-22NFF 3/4" NPT	$ 218.32
10-22NFH 1" NPT	$ 312.59

Tees

15-23NFA 1/8" NPT	$ 113.26
15-23NFB 1/4" NPT	$ 121.23
15-23NFC 3/8" NPT	$ 121.23
15-23NFD 1/2" NPT	$ 121.23
10-23NFF 3/4" NPT	$ 290.17
10-23NFH 1" NPT	$ 407.41

Crosses

15-24NFA 1/8" NPT	$ 126.55
15-24NFB 1/4" NPT	$ 126.55
15-24NFC 3/8" NPT	$ 126.55
15-24NFD 1/2" NPT	$ 139.83
10-24NFF 3/4" NPT	$ 375.42
10-24NFH 1" NPT	$ 559.20

Couplings

15-21NFA 1/8" NPT	$ 90.56
15-21NFB 1/4" NPT	$ 90.56
15-21NFC 3/8" NPT	$ 90.56
15-21NFD 1/2" NPT	$ 113.26
10-21NFF 3/4" NPT	$ 197.06
10-21NFH 1" NPT	$ 202.38

Line Filters

15-51NFB 1/4" NPT	$ 327.70
15-51NFC 3/8" NPT	$ 327.70
15-51NFD 1/2" NPT	$ 342.21

Ball Check Valves

15-41NFB 1/4" NPT	$ 260.77
15-41NFC 3/8" NPT	$ 260.77
15-41NFD 1/2" NPT	$ 310.21
10-41NFF 3/4" NPT	$ 692.27
10-41NFH 1" NPT	$ 993.17

Soft Seat Check Valves

15-41NFB-T 1/4" NPT	$ 266.26
15-41NFC-T 3/8" NPT	$ 266.26
15-41NFD-T 1/2" NPT	$ 268.92
10-41NFF-T 3/4" NPT	$ 710.86
10-41NFH-T 1" NPT	$ 1,127.69

Safety Heads

15-61NMA 1/8" Male NPT	$ 202.38
15-61NMB 1/4" Male NPT	$ 202.38
15-61NMC 3/8" Male NPT	$ 202.38
15-61NMD 1/2" Male NPT	$ 243.67

Hex Nipples

15-21NMANMA 1/8" Male NPT	$ 77.17
15-21NMBNMB 1/4" Male NPT	$ 77.17
15-21NMCNMC 3/8" Male NPT	$ 77.17
15-21NMDNMD 1/2" Male NPT	$ 77.17
10-21NMFNMF 3/4" NPT	$ 126.55
10-21NMHNMH 1" NPT	$ 202.38

Taper Seal Tubing (Catalog Page 16)

Size	Material	Wall Thickness	Catalog No.	Price/Foot 0-200 Feet	Price/Foot 201-500 Feet	Price/Foot 501+ Feet
1/16" O.D. x 0.006" I.D.	316 S.S.	.028	15-9A1-006	$16.10	$15.80	$14.70
1/16" O.D. x 0.030" I.D.	316 S.S.	.016	15-9A1-030	$16.40	$15.60	$15.30
1/8" O.D. x 0.060" I.D.	316 S.S.	.032	15-9A2	$16.10	$15.80	$14.70
1/8" O.D. x 0.060" I.D.	Hastelloy-C	.032	15-9A2-HC276	$43.00	$41.80	$37.90
1/4" O.D. x 1/8" I.D.	316 S.S.	.062	10-9A4-316	$23.50	$22.60	$22.40
1/4" O.D. x 1/8" I.D.	304 S.S.	.062	10-9A4-304	$21.10	$20.00	$19.70
3/8" O.D. x 1/4" I.D.	316 S.S.	.062	10-9A6-316	$28.80	$28.50	$27.40

High Pressure Equipment
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Medium Pressure Valves
Fittings & Tubing
Medium Pressure Valves
(Catalog Page 30)

20-11LF4	$ 213.00
20-11LF6	$ 236.91
20-11LF9	$ 311.54
20-11LF12	$ 1,284.78
20-11LF16	$ 1,814.63
10-11LF16	$ 1,843.85
10-11LF12	$ 1,285.99
20-12LF4	$ 215.66
20-12LF6	$ 245.01
20-12LF9	$ 311.54
20-12LF12	$ 1,388.63
20-12LF16	$ 1,903.74
10-12LF12	$ 1,373.89
10-12LF16	$ 1,909.06
20-13LF4	$ 268.92
20-13LF6	$ 284.86
20-13LF9	$ 386.04
20-13LF12	$ 1,514.93
20-13LF16	$ 2,018.22
10-13LF12	$ 1,532.32
10-13LF16	$ 2,055.53
20-14LF4	$ 284.86
20-14LF6	$ 311.54
20-14LF9	$ 400.78
20-14LF12	$ 1,548.38
20-14LF16	$ 2,070.14
10-14LF12	$ 1,564.32
10-14LF16	$ 2,102.14
20-15LF4	$ 446.05
20-15LF6	$ 478.06
20-15LF9	$ 583.11
20-15LF12	$ 2,904.89
20-15LF16	$ 3,542.56
10-15LF12	$ 3,040.61
10-15LF16	$ 3,392.10
20-12LF4-R	$ 414.06
20-12LF6-R	$ 454.02
20-12LF9-R	$ 547.24
20-12LF12-R	$ 1,835.88
20-12LF16-R	$ 2,207.20
10-12LF12-R	$ -
10-12LF16-R	$ 2,308.38

Medium Pressure Fittings
(Catalog Page 32)
Elbows

20-22LF4	$ 61.23
20-22LF6	$ 79.94
20-22LF9	$ 99.87
20-22LF12	$ 218.32
20-22LF16	$ 380.73
15-22LF24	$ 1,694.73

Tees

20-23LF4	$ 79.94
20-23LF6	$ 93.22
20-23LF9	$ 134.52
20-23LF12	$ 295.60
20-23LF16	$ 448.71
15-23LF24	$ 1,986.22

Crosses

20-24LF4	$ 98.53
20-24LF6	$ 110.61
20-24LF9	$ 174.49
20-24LF12	$ 400.78
20-24LF16	$ 608.47
15-24LF24	$ 2,381.67

Medium Pressure Union Couplings
(Catalog Page 33)

20-21LF4U	$ 99.87
20-21LF6U	$ 110.61
20-21LF9U	$ 149.13
20-21LF12U	$ 260.95
20-21LF16U	$ 354.17
15-21LF24U	$ 1,179.49
20-21LF4B	$ 143.82
20-21LF6B	$ 179.80

Medium Pressure
Bulkhead Couplings
(Catalog Page 33)

20-21LF9-B	$ 230.39
20-21LF12-B	$ 456.68
20-21LF16-B	$ 667.02
15-21LF24-B	$ 1,982.36

Medium Pressure Caps
(Catalog Page 33)

20-21LF4-C	$ 54.71
20-21LF6-C	$ 60.02
20-21LF9-C	$ 74.51
20-21LF12-C	$ 107.95
20-21LF16-C	$ 143.82
15-21LF24-C	$ 620.41

Medium Pressure Line Filters
(Catalog Page 34)

20-51LF4	$ 310.21
20-51LF6	$ 326.27
20-51LF9	$ 505.94
20-15LF12	$ 2,904.89
20-15LF12	$ 2,904.89

Medium Pressure Ball Check Valves
(Catalog Page 34)

20-41LF4	$ 202.38
20-41LF6	$ 213.00
20-41LF9	$ 288.96
20-41LF12	$ 812.05
20-41LF16	$ 1,288.64
10-41LF16	$ 1,140.97

Medium Pressure Soft Seat
Check Valves
(Catalog Page 34)

20-41LF4-T	$ 215.66
20-41LF6-T	$ 234.26
20-41LF9-T	$ 286.30
20-41LF12-T	$ 809.39
20-41LF16-T	$ 1,234.19
10-41LF16-T	$ 1,140.97

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Medium Pressure Safety Heads
(Catalog Page 35)

20-61LM4	$	182.46
20-61LM6	$	189.09
20-61LM9	$	207.69
20-61LM12	$	438.08
20-61LM16	$	473.95

Medium Pressure Rupture Discs
(Catalog Page 36)

1,500 to 5,000 psi	$	65.33
5,500 to 20,000 psi	$	85.25

Medium Pressure Anti-Vibration
(Catalog Page 37)
Gland Assembly

20-3LM4	$	77.17
20-3LM6	$	85.25
20-3LM9	$	102.52
20-3LM12	$	117.13
20-3LM16	$	197.06

Component Parts
Slotted Collet

208769	$	22.70
208772	$	22.70
208775	$	50.60
208778	$	52.05
208781	$	106.50

Collet Gland

208770	$	30.67
208773	$	32.00
208776	$	22.70
208779	$	32.00
208782	$	38.64

Collet Body

208768	$	45.29
208771	$	38.64
208774	$	55.91
208777	$	63.88
208780	$	89.24

Medium Pressure Nipples (316 S.S.)
(Catalog Page 38)

20-LM4-2.75	$	21.25
20-LM4-6	$	31.00
20-LM4-8	$	32.00
20-LM4-10	$	35.98
20-LM4-12	$	42.63
20-LM6-3	$	28.01
20-LM6-6	$	37.32
20-LM6-8	$	42.63
20-LM6-10	$	47.94
20-LM6-12	$	55.91
20-LM9-4	$	42.63
20-LM9-6	$	54.71
20-LM9-8	$	63.88
20-LM9-10	$	73.30
20-LM9-12	$	83.93
15-LM12-4	$	63.88
15-LM12-6	$	66.54
15-LM12-8	$	89.24
15-LM12-10	$	99.87
15-LM12-12	$	114.47
20-LM12-4	$	66.54
20-LM12-6	$	71.85
20-LM12-8	$	94.55
20-LM12-10	$	117.13
20-LM12-12	$	122.44
15-LM16-6	$	97.21
15-LM16-8	$	110.61
15-LM16-10	$	125.10
15-LM16-12	$	142.49
20-LM16-6	$	110.61
20-LM16-8	$	122.44
20-LM16-10	$	142.49
20-LM16-12	$	166.52
15-LM24-6	$	322.16
15-LM24-8	$	375.42
15-LM24-10	$	396.67
15-LM24-12	$	438.08

Medium Pressure
Connection Components
(Catalog Page 39)
Glands

20-2LM4	$	9.42
20-2LM6	$	13.28
20-2LM9	$	18.60
20-2LM12	$	28.01
20-2LM16	$	43.95
15-2LM24	$	150.45

Collars

20-2L4	$	6.76
20-2L6	$	7.97
20-2L9	$	13.28
20-2L12	$	14.73
20-2L16	$	25.36
15-2L24	$	102.52

Plugs

20-7LM4	$	14.73
20-7LM6	$	15.94
20-7LM9	$	22.70
20-7LM12	$	33.33
20-7LM16	$	62.68
15-7LM24	$	195.74

Medium Pressure Tubing (Catalog Page 38)

Size	Material	Wall Thickness	Catalog No.	Price/ Foot 0-200 Feet	Price/ Foot 201-500 Feet	Price/ Foot 501+ Feet
1/4" O.D. x 0.109" I.D.	316 S.S.	.070	20-9M4-316	$22.30	$20.90	$19.80
3/8" O.D. x 0.203" I.D.	316 S.S.	.086	20-9M6-316	$34.20	$32.90	$31.70
9/16" O.D. x 0.312" I.D.	304 S.S.	.124	20-9M9-304	$33.80	$31.60	$26.70
9/16" O.D. x 0.359" I.D.	316 S.S.	.100	15-9M9-316	$44.80	$43.70	$42.30
9/16" O.D. x 0.312" I.D.	316 S.S.	.124	20-9M9-316	$40.70	$39.30	$36.90
3/4" O.D. x 0.516" I.D.	316 S.S.	.117	15-9M12-316	$57.80	$55.30	$49.60
3/4" O.D. x 0.438" I.D.	316 S.S.	.156	20-9M12-316	$60.00	$57.50	$55.00
1" O.D. x 0.688" I.D.	316 S.S.	.156	15-9M16-316	$84.60	$81.00	$79.60
1" O.D. x 0.562" I.D.	316 S.S.	.219	20-9M16-316	$86.90	$85.50	$83.10
1.5" O.D. x 0.938" I.D.	316 S.S.	.281	15-9M24-316	$188.80	$185.10	$183.90

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High Pressure Valves, Fittings & Tubing

High Pressure Valves (Catalog Page 42)

30-11HF2	$ 218.32
30-11HF4	$ 203.71
30-11HF6	$ 233.05
30-11HF9	$ 306.22
30-11HF16	$ 2,024.98
40-11HF9	$ 347.52
30-12HF2	$ 222.42
30-12HF4	$ 203.71
30-12HF6	$ 233.05
30-12HF9	$ 306.22
30-12HF16	$ 2,122.06
40-12HF9	$ 347.52
30-13HF2	$ 282.20
30-13HF4	$ 243.67
30-13HF6	$ 315.53
30-13HF9	$ 420.69
30-13HF16	$ 2,353.66
40-13HF9	$ 478.06
30-14HF2	$ 283.65
30-14HF4	$ 245.01
30-14HF6	$ 318.30
30-14HF9	$ 422.03
30-14HF16	$ 2,353.66
40-14HF9	$ 480.71
30-15HF2	$ 378.07
30-15HF4	$ 338.10
30-15HF6	$ 524.54
30-15HF9	$ 540.48
30-15HF16	$ 4,142.93
40-15HF9	$ 697.58
30-12HF2-R	$ 340.76
30-12HF4-R	$ 350.18
30-12HF6-R	$ 422.03
30-12HF9-R	$ 517.90
30-12HF16-R	$ 2,602.65
40-12HF9-R	$ 608.47

High Pressure Valves (Catalog Page 46)

60-11HF2	$ 273.02
60-11HF4	$ 246.33
60-11HF6	$ 278.33
60-11HF9	$ 340.76
60-12HF2	$ 273.02
60-12HF4	$ 248.99
60-12HF6	$ 283.65
60-12HF9	$ 342.21
60-13HF2	$ 306.22
60-13HF4	$ 290.17
60-13HF6	$ 358.14
60-13HF9	$ 451.36
60-14HF2	$ 308.88
60-14HF4	$ 300.91
60-14HF6	$ 358.14
60-14HF9	$ 459.33
60-15HF2	$ 460.67
60-15HF4	$ 459.33
60-15HF6	$ 540.48
60-15HF9	$ 668.36
60-12HF2-R	$ 376.87
60-12HF4-R	$ 407.41
60-12HF6-R	$ 459.33
60-12HF9-R	$ 593.73

High Pressure Fittings (Catalog Page 48)

Elbows

60-22HF2	$ 82.59
60-22HF4	$ 70.64
60-22HF6	$ 97.21
60-22HF9	$ 138.51
40-22HF9	$ 143.82
30-22HF16	$ 424.80

Tees

60-23HF2	$ 105.29
60-23HF4	$ 99.87
60-23HF6	$ 118.58
60-23HF9	$ 185.12
40-23HF9	$ 186.44
30-23HF16	$ 512.59

Crosses

60-24HF2	$ 130.41
60-24HF4	$ 113.26
60-24HF6	$ 145.14
60-24HF9	$ 215.66
40-24HF9	$ 219.77
30-24HF16	$ 725.59

High Pressure Union Couplings (Catalog Page 49)

60-21HF2-U	$ 135.85
60-21HF4-U	$ 113.26
60-21HF6-U	$ 145.14
60-21HF9-U	$ 215.66
40-21HF9-U	$ 219.77
30-21HF16-U	$ 512.59

High Pressure Bulkhead Couplings (Catalog Page 49)

60-21HF2-B	$ 181.01
60-21HF4-B	$ 1,082.40
60-21HF6-B	$ 155.77
60-21HF9-B	$ 205.03
40-21HF9-B	$ 215.66
30-21HF16-B	$ 760.24

High Pressure Caps (Catalog Page 49)

60-21HF2-C	$ 52.05
60-21HF4-C	$ 57.36
60-21HF6-C	$ 87.91
60-21HF9-C	$ 94.55
40-21HF9-C	$ 99.87
30-21HF16-C	$ 138.51

High Pressure Line Filters (Catalog Page 50)

60F-51HF2	$ 311.54
60F-51HF4	$ 307.56
60F-51HF6	$ 326.27
60F-51HF9	$ 422.03
40F-51HF9	$ 431.32

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High Pressure Ball Check Valves		
(Catalog Page 50)		
60-41HF2	$	222.42
60-41HF4	$	211.80
60-41HF6	$	268.92
60-41HF9	$	322.16
40-41HF9	$	332.79
30-41HF16	$	1,331.27
High Pressure Soft Seat		
Check Valves		
(Catalog Page 50)		
30-41HF2-T	$	241.02
30-41HF4-T	$	214.45
30-41HF6-T	$	245.01
30-41HF9-T	$	286.30
60-41HF4-T	$	255.63
60-41HF6-T	$	283.65
60-41HF9-T	$	340.76
40-41HF9-T	$	350.18
30-41HF16-T	$	1,348.66
High Pressure Excess Surge		
Check Valves		
(Catalog Page 51)		
60-41HF9-E	$	370.10
Bushing 2-0888	$	87.91
High Pressure Rupture Discs		
(Catalog Page 51)		
1,500 to 5,000 psi	$	65.33
5,500 to 65,000 psi	$	85.25
High Pressure Safety Heads		
(Catalog Page 52)		
60-61HM4	$	183.67
60-61HM6	$	183.67
60-61HM9	$	215.66
40-61HM9	$	218.32
30-61HM16	$	505.94
60-63HF2	$	270.37
60-63HF4	$	270.37
60-63HF6	$	271.57
60-63HF9	$	312.87
40-63HF9	$	320.95
60-61HF2	$	225.08
60-61HF4	$	225.08
60-61HF6	$	227.73
60-61HF9	$	276.89
40-61HF9	$	280.99
High Pressure Anti-Vibration		
(Catalog Page 53)		
Gland Assembly		
60-3HM4	$	34.66
60-3HM6	$	33.33
60-3HM9	$	49.27
Component Parts		
Slotted Collet		
208784	$	25.36
208786	$	20.04
208788	$	21.25
Collet Gland		
208783	$	20.04
208785	$	28.01
208787	$	29.35
Collar		
60-2H4	$	6.76
60-2H6	$	9.42
60-2H9	$	12.08
High Pressure Nipples (316 S.S.)		
(Catalog Page 54)		
60-HM2-2	$	18.60
60-HM2-3	$	20.04
60-HM2-4	$	21.25
60-HM2-6	$	25.36
60-HM2-9	$	29.35
60-HM2-12	$	33.33
30-HM2-2	$	18.60
30-HM2-3	$	20.04
30-HM2-4	$	21.25
30-HM2-6	$	25.36
30-HM2-9	$	29.35
30-HM2-12	$	32.00
60-HM4-2.75-316	$	21.25
60-HM4-6-316	$	29.35
60-HM4-8-316	$	33.33
60-HM4-10-316	$	39.97
60-HM4-12-316	$	45.29
60-HM6-3-316	$	29.35
60-HM6-6-316	$	38.64
60-HM6-8-316	$	43.95
60-HM6-10-316	$	49.27
60-HM6-12-316	$	55.91
60-HM9-4-316	$	43.95
60-HM9-6-316	$	57.36
60-HM9-8-316	$	62.68
60-HM9-10-316	$	73.30
60-HM9-12-316	$	86.58
40-HM9-4-316	$	47.94
40-HM9-6-316	$	58.57
40-HM9-8-316	$	67.99
40-HM9-10-316	$	78.61
40-HM9-12-316	$	89.24
30-HM16-6	$	111.81
30-HM16-8	$	127.75
30-HM16-10	$	142.49
30-HM16-12	$	171.83

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High Pressure Nipples (304 S.S.)			60-HM9-8-304	$	46.61	Collars		
(Catalog Page 54)			60-HM9-10-304	$	53.26	60-2H2	$	6.76
60-HM4-2.75-304	$	20.04	60-HM9-12-304	$	60.02	60-2H4	$	6.76
60-HM4-6-304	$	26.69				60-2H6	$	9.42
60-HM4-8-304	$	33.33				60-2H9	$	12.08
60-HM4-10-304	$	35.98	**High Pressure Components**			30-2H16	$	28.01
60-HM4-12-304	$	38.64	**(Catalog Page 55)**			**Plugs**		
60-HM6-3-304	$	26.69	**Glands**			60-7HM2	$	12.08
60-HM6-6-304	$	37.32	60-2HM2	$	13.28	60-7HM4	$	12.08
60-HM6-8-304	$	47.96	60-2HM4	$	13.28	60-7HM6	$	15.94
60-HM6-10-304	$	43.95	60-2HM6	$	15.94	60-7HM9	$	20.04
60-HM6-12-304	$	45.29	60-2HM9	$	23.91	40-7HM9	$	20.04
60-HM9-4-304	$	38.64	30-2HM16	$	47.94	30-7HM16	$	65.33
60-HM9-6-304	$	42.63						

High Pressure Tubing (Catalog Page 54)

Size	Material	Wall Thickness	Catalog No.	Price/Foot 0-200 Feet	Price/Foot 201-500 Feet	Price/Foot 501+ Feet
1/8" O.D. x .020" I.D.	316 S.S.	.052	60-9H2	$16.00	$15.70	$14.60
1/8" O.D. x .040" I.D.	316 S.S.	.042	30-9H2	$15.80	$15.50	$14.40
1/4" O.D. x .083" I.D	316 S.S.	.083	60-9H4-316	$22.30	$20.90	$19.90
1/4" O.D. x .083" I.D.	304 S.S.	.083	60-9H4-304	$18.40	$18.20	$17.90
1/4" O.D. x .083" I.D.	HC276	.083	60-9H4-HC276	$74.60	$72.10	$69.60
3/8" O.D. x 1/8" I.D.	316 S.S.	.125	60-9H6-316	$31.30	$30.20	$28.80
3/8" O.D. x 1/8" I.D.	304 S.S.	.125	60-9H6-304	$25.00	$23.70	$22.50
9/16" O.D. x 1/4" I.D.	316 S.S.	.155	40-9H9-316	$42.10	$39.60	$38.20
9/16" O.D. x 1/4" I.D.	304 S.S.	.155	40-9H9-304	$35.50	$34.10	$32.90
9/16" O.D. x 3/16" I.D.	316 S.S.	.154	60-9H9-316	$52.00	$49.50	$48.20
9/16" O.D. x 3/16" I.D.	316 SGS	.154	60-9H9-316-SGS	$54.70	$53.30	$52.20
9/16" O.D. x 3/16" I.D.	304 S.S.	.154	60-9H9-304	$39.20	$36.80	$35.40
1" O.D. x .437" I.D.	316 S.S.	.281	30-9H16-316	$87.80	$85.30	$83.90

High Pressure Equipment
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Ultra High Pressure Valves, Fittings & Tubing

Ultra High Pressure Valves (Catalog Pages 58)

100-11XF4	$	834.75
100-12XF4	$	834.75
100-13XF4	$	991.84
100-14XF4	$	991.84
100-15XF4	$	1,855.81
100-12XF4-R	$	1,228.88
100-11UF6	$	950.54
100-12UF6	$	957.31
100-13UF6	$	1,079.75
100-14UF6	$	1,110.30
100-11UF9	$	1,207.50
100-12UF9	$	1,215.47
100-13UF9	$	1,172.97
100-14UF9	$	1,361.95
150-11XF6	$	1,042.44
150-12XF6	$	1,042.44
150-13XF6	$	1,172.97
150-14XF6	$	1,180.94
150-15XF6	$	2,003.61
150-12XF6-R	$	1,399.25

Ultra High Pressure Check Valves (Catalog Page 59)

100-41XF4	$	524.54
100-41UF6	$	601.70
100-41UF9	$	740.20
150-41XF6	$	882.68

Ultra High Pressure Safety Heads

100-61XF4	$	890.65
150-61XF6	$	1,077.09

Ultra High Pressure Fittings (Catalog Page 59)

Elbows

100-22XF4	$	197.06
10-22UF6	$	300.86
10-22UF9	$	452.70
150-22XF6	$	271.57

Tees

100-23XF4	$	268.92
100-23UF6	$	355.49
100-23UF9	$	445.30
150-23XF6	$	355.49

Crosses

100-24XF4	$	307.56
100-24UF6	$	441.95
100-24UF9	$	906.72
150-24XF6	$	386.04

Bulkheads

100-21XF4-B	$	288.96
100-21UF6-B	$	588.42
100-21UF9-B	$	722.94
150-21XF6-B	$	386.04

Caps

100-21XF4-C	$	54.71
100-21UF6-C	$	91.90
100-21UF9-C	$	94.55
150-21XF6-C	$	91.90

Ultra High Pressure Nipples (316 S.S.) (Catalog Page 60)

100-XM4-2.75-316	$	26.69
100-XM4-6-316	$	35.98
100-XM4-8-316	$	39.97
100-XM4-10-316	$	42.63
100-XM4-12-316	$	45.29

Ultra High Pressure Nipples (304 S.S.) (Catalog Page 60)

100-XM4-2.75-304	$	28.13
100-XM4-6-304	$	41.80
100-XM4-8-304	$	35.98
100-XM4-10-304	$	37.32
100-XM4-12-304	$	47.33
150-XM6-4-304	$	50.60
150-XM6-6-304	$	61.23
150-XM6-8-304	$	73.30
150-XM6-10-304	$	86.58
150-XM6-12-304	$	97.21

Ultra High Pressure Connection Components (Catalog Page 61)

Glands

100-2XM4	$	18.60
100-2UM6	$	30.18
100-2UM9	$	33.33
150-2XM6	$	23.91

Collars

100-2X4	$	10.63
100-2U6	$	20.04
100-2U9	$	25.36
150-2X6	$	14.73

Plugs

100-7XM4	$	21.25
100-7UM6	$	30.67
100-7UM9	$	35.98
150-7XM6	$	26.69

Ultra High Pressure Tubing (Catalog Page 60)

Size	Material	Wall Thickness	Catalog No.	Price/Foot 0-200 Feet	Price/Foot 201-500 Feet	Price/Foot 501+ Feet
1/4" O.D. x 1/16" I.D.	316 S.S.	.094	100-9X4-316	$26.20	$25.10	$24.80
1/4" O.D. x 1/16" I.D.	304 S.S.	.094	100-9X4-304	$23.90	$23.60	$22.50
3/8" O.D. x 1/16" I.D.	304 S.S.	.156	150-9X6	$50.80	$47.20	$44.80

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Specialty Valves

Two Way Ball Valves
(Catalog Page 70)

15-16AF1	$ 433.98
15-16AF2	$ 444.60
10-16AF4	$ 458.01
10-16AF6	$ 441.95
20-16LF4	$ 441.95
20-16LF6	$ 444.60
20-16LF9	$ 458.01
20-16HF2	$ 441.95
20-16HF4	$ 441.95
20-16HF6	$ 444.60
20-16HF9	$ 460.67
15-16NFA	$ 384.84
15-16NFB	$ 384.84
15-16NFC	$ 384.84
15-16NFD	$ 384.84

Trunnion Style Two Way Ball Valves
(Catalog Page 71)
.187 Orifice

15-71AF1	$ 537.82
15-71AF2	$ 537.82
10-71AF4	$ 537.82
10-71AF6	$ 537.82
20-71LF4	$ 537.82
20-71LF6	$ 537.82
20-71LF9	$ 537.82
20-71HF4	$ 537.82
20-71HF6	$ 537.82
20-71HF9	$ 537.82
15-71NFA	$ 537.82
15-71NFB	$ 537.82
15-71NFC	$ 537.82

0.375 Orifice

10-74AF6	$ 762.90
15-74LF9	$ 762.90
15-74LF12	$ 762.90
15-74LF16	$ 762.90
15-74NFB	$ 762.90
15-74NFC	$ 762.90
15-74NFD	$ 762.90

.500 Orifice

10-80LF12	$ 1,994.19
10-80LF16	$ 1,994.19
10-80NFF	$ 1,994.19
10-80NFH	$ 1,994.19

Trunnion Style Three Way Ball Valves
(Catalog Page 72)
.187 Orifice (90°)

15-73AF1	$ 589.87
15-73AF2	$ 589.87
10-73AF4	$ 589.87
10-73AF6	$ 589.87
20-73LF4	$ 589.87
20-73LF6	$ 589.87
20-73LF9	$ 589.87
20-73HF4	$ 589.87
20-73HF6	$ 589.87
20-73HF9	$ 589.87
15-73NFA	$ 589.87
15-73NFB	$ 589.87
15-73NFC	$ 589.87

.187 Orifice (180°)

15-72AF1	$ 589.87
15-72AF2	$ 589.87
10-72AF4	$ 589.87
10-72AF6	$ 589.87
20-72LF4	$ 589.87
20-72LF6	$ 589.87
20-72LF9	$ 589.87
20-72HF4	$ 589.87
20-72HF6	
20-72HF9	$ 589.87
15-72NFA	$ 589.87
15-72NFB	$ 589.87
15-72NFC	$ 589.87

Trunnion Style Three Way Ball Valves
(Catalog Page 72)
.375 Orifice (90°)

10-76AF6	$ 781.49
15-76LF9	$ 781.49
15-76LF12	$ 781.49
15-76LF16	$ 781.49
15-76NFB	$ 781.49
15-76NFC	$ 781.49
15-76NFD	$ 781.49

.500 Orifice (90°)

10-82LF12	$ 2,151.28
10-82LF16	$ 2,151.28
10-82NFF	$ 2,151.28
10-82NFH	$ 2,151.28

.375 Orifice (180°)

10-75AF6	$ 781.49
15-75LF9	$ 781.49
15-75LF12	$ 781.49
15-75LF16	$ 781.49
15-75NFB	$ 781.49
15-75NFC	$ 781.49
15-75NFD	$ 781.49

.500 Orifice (180°)

10-81LF12	$ 2,151.28
10-81LF16	$ 2,151.28
10-81NFF	$ 2,151.28
10-81NFH	$ 2,151.28

Mini Three Way Ball Valves

10-77LF4	$ 315.53
10-77LF6	$ 315.53
10-77LF9	$ 315.53
10-77NFA	$ 315.53
10-77NFB	$ 315.53
10-77NFC	$ 315.53

High Temperature Valves
(Suffix "HT")

Add to price of valves in the 20,000 and 30,000 psi series.	$ 340.76
Except HF16, LF12 and LF16 series add to price of valves.	$ 728.25

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Micro Control Metering Valves
(Suffix "V")

Add to price of standard 60,000 psi series.	$	447.26

Metering Tip Valve
(Suffix "MTS")

Add to price of standard 60,000 psi series.	$	106.50

Relief Valves
(Catalog Page 78)

602923 (SoftSeat)	$	1,143.63
402633	$	1,117.06
HiP-10RV	$	419.06
HiP-20RV	$	819.63

Male Bottom Connection Valves

2-7928A	$	276.89
2-8144A	$	290.17
2-7602A	$	276.89
2-7569A	$	290.17
15-12NMAAF2	$	276.89
15-12NMBAF2	$	276.89
2-7565A	$	478.06
2-7927A	$	383.39
2-8039A	$	396.67
2-7604A	$	384.84
2-7603A	$	395.46

*Rupture Discs (when required) should be ordered separately.

Block and Bleed Needle Valves

15-SBB-NFB	$	665.70
15-SBB-NFC	$	725.59
15-SBB-NFD	$	745.51
20-SBB-LF4	$	686.95
20-SBB-LF6	$	716.17
20-SBB-LF9	$	754.93

Double Block and Bleed Needle Valves

20-DBB-LF4	$	1,248.68
20-DBB-LF6	$	1,284.78
20-DBB-LF9	$	1,380.54
20-DBB-LF12	$	2,385.66
20-DBB-LF16	$	2,508.10
15-DBB-BV-LF6	$	4,817.93
15-DBB-BV-LF9	$	4,817.93
15-DBB-BV-LF12	$	4,817.93
15-DBB-BV-NFB	$	4,817.93
15-DBB-BV-NFC	$	4,817.93
15-DBB-BV-NFD	$	4,817.93

Air Operated Valves
Hippo Air Actuators
(Catalog Pages 63)

Mini Hippo Normally Open	$	599.05
Mini Hippo Normally Closed	$	641.67
MPO-NO Normally Open	$	856.12
MPO-NC Normally Closed	$	902.61
HPO-NO Normally Open	$	1,208.83
HPO-NC Normally Closed	$	1,227.43
EHPO-NO Normally Open	$	5,808.44
EHPO-NC Normally Closed	$	5,808.44

Hipco Air & Ball Valve Operators
(Catalog Page 64)
Add the following to price of a standard valve.

Normally Open	$	665.70
Normally Closed	$	705.55
TSR4 Ball Valve	$	782.83
TDR4 Ball Valve	$	782.83
TSR8 Ball Valve	$	782.83
TDA8 Ball Valve	$	782.83
TSR20 Ball Valve	$	1,284.78

Remarco Valves
(Catalog Page 65)

D-20R-12LF9R	$	2,127.37
D-30R-12HF4R	$	1,505.75
D-30R-12HF6R	$	1,505.75
D-30R-12HF9R	$	1,505.75
D-10R-12LF9R	$	1,505.75
D-60R-12HF4R	$	1,505.75
D-60R-12HF6R	$	1,505.75
D-60R-12HF9R	$	1,600.18
D-100R-12XF4R	$	1,962.31
D-100R-12XF6R	$	1,998.30
SD-20R-12LF9R	$	2,366.94
SD-30R-12HF4R	$	1,747.98
SD-30R-12HF6R	$	1,747.98
SD-30R-12HF9R	$	1,849.17
SD-10R-12LF9R	$	1,849.17
SD-60R-12HF4R	$	1,747.98
SD-60R-12HF6R	$	1,747.98
SD-60R-12HF9R	$	1,849.17
SD-100R-12XF4R	$	2,200.67
SD-100R-12XF6R	$	2,236.53

Remetco Valves
(Catalog Page 67)

10M-12HF9R	$	6,411.34
30M-12HF9R	$	6,411.34
60M-12HF9R	$	6,411.34
(Remote Valve Panel) - RVP	$	1,123.58

High Pressure Equipment
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Accessories

Adapters: Female to Male

(Catalog Page 98)

15-21AF1AM1	$	93.22
15-21AF1AM2	$	93.22
10-21AF1AM4	$	93.22
10-21AF1AM6	$	114.47
15-21AF2AM1	$	90.56
10-21AF2AM4	$	102.52
10-21AF2AM6	$	114.47
10-21AF4AM2	$	107.95
10-21AF4AM6	$	107.95
10-21AF6AM2	$	113.26
10-21AF6AM4	$	110.61
15-21AF1HM2	$	98.53
15-21AF1HM4	$	98.53
15-21AF1HM6	$	121.23
15-21AF1HM9	$	158.55
15-21AF2HM2	$	103.85
15-21AF2HM4	$	103.85
15-21AF2HM6	$	110.61
15-21AF2HM9	$	110.61
10-21AF4HM2	$	77.17
10-21AF4HM4	$	73.30
10-21AF4HM6	$	77.17
10-21AF4HM9	$	90.56
10-21AF6HM2	$	91.90
10-21AF6HM4	$	81.27
10-21AF6HM6	$	82.59
10-21AF6HM9	$	98.53
10-21XF6AM4	$	222.42
15-21AF1NMA	$	69.20
15-21AF1NMB	$	69.20
15-21AF1NMC	$	69.20
15-21AF1NMD	$	69.20
10-21AF1NMF	$	106.50
10-21AF1NMH	$	193.09
15-21AF2NMA	$	69.20
15-21AF2NMB	$	69.20
15-21AF2NMC	$	69.20
15-21AF2NMD	$	69.20
10-21AF2NMF	$	107.95
10-21AF2NMH	$	131.86
10-21AF4NMA	$	65.33
10-21AF4NMB	$	65.33
10-21AF4NMC	$	65.33
10-21AF4NMD	$	65.33
10-21AF4NMF	$	107.95
10-21AF4NMH	$	137.17
10-21AF6NMA	$	67.99
10-21AF6NMB	$	67.99
10-21AF6NMC	$	67.99
10-21AF6NMD	$	67.99
10-21AF6NMF	$	107.95
10-21AF6NMH	$	137.17
20-21LF4LM6	$	71.85
20-21LF4LM9	$	74.51
20-21LF6LM4	$	78.61
20-21LF6LM6	$	111.81
20-21LF6LM9	$	83.93
20-21LF9LM4	$	89.24
20-21LF9LM6	$	89.24
20-21LF12LM4	$	185.12
20-21LF12LM6	$	209.02
20-21LF12LM9	$	218.32
20-21LF12LM16	$	228.94
20-21LF4LM12	$	158.55
20-21LF6LM12	$	154.45
20-21LF9LM12	$	163.86
20-21LF16LM4	$	210.35
20-21LF16LM6	$	223.63
20-21LF16LM9	$	255.63
20-21LF16LM12	$	234.26
20-21LF4LM16	$	167.73
20-21LF6LM16	$	219.77
20-21LF9LM16	$	223.63
20-21LF4HM2	$	67.99
20-21LF4HM4	$	78.61
20-21LF4HM6	$	78.61
20-21LF4HM9	$	81.27
20-21LF4HM16	$	142.49
20-21LF6HM4	$	71.85
20-21LF6HM6	$	89.24
20-21LF6HM9	$	93.22
20-21LF9HM4	$	90.56
20-21LF9HM6	$	91.90
20-21LF9HM9	$	91.90
20-21LF9XM4	$	167.73
20-21LF12HM4	$	185.12
20-21LF12HM6	$	205.03
20-21LF12HM9	$	219.77
20-21LF16HM4	$	255.63
20-21LF16HM6	$	255.63
20-21LF16HM9	$	267.71
20-21HF2LM4	$	73.30
20-21HF4LM4	$	73.30
20-21HF4LM6	$	75.96
20-21HF4LM9	$	78.61
20-21HF6LM4	$	86.58
20-21HF6LM6	$	86.58
20-21HF6LM9	$	91.90
20-21HF9LM4	$	97.21
20-21HF9LM6	$	97.21
20-21HF9LM9	$	102.52
20-21HF4LM12	$	158.55
20-21HF6LM12	$	201.05
20-21HF9LM12	$	228.94
20-21HF4LM16	$	209.02
20-21HF6LM16	$	239.69
20-21HF9LM16	$	220.97
30-21HF4HM16	$	245.01
30-21HF6HM16	$	260.95
30-21HF9HM16	$	250.32
20-21LF4NMA	$	73.30
20-21LF4NMB	$	58.57
20-21LF4NMC	$	61.23
20-21LF4NMD	$	62.68
10-21LF4NMF	$	122.44
10-21LF4NMH	$	133.19
20-21LF6NMA	$	73.30
20-21LF6NMB	$	62.68
20-21LF6NMC	$	67.99
20-21LF6NMD	$	70.64
10-21LF6NMF	$	125.10
10-21LF6NMH	$	129.20
20-21LF9NMA	$	97.21
20-21LF9NMB	$	89.24
20-21LF9NMC	$	91.90
20-21LF9NMD	$	93.22
10-21LF9NMF	$	106.50
10-21LF9NMH	$	119.78
20-21LF12NMA	$	206.37

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20-21LF12NMB	$	206.37	10-21HF2NMF	$	142.49	60-21HF6HM2	$	75.96
20-21LF12NMC	$	201.05	10-21HF2NMH	$	171.83	60-21HF6HM4	$	81.27
20-21LF12NMD	$	178.35	30-21HF4NMA	$	58.57	60-21HF6HM9	$	93.22
10-21LF12NMF	$	209.02	30-21HF4NMB	$	58.57	60-21HF9HM2	$	114.47
10-21LF12NMH	$	223.63	30-21HF4NMC	$	60.02	60-21HF9HM4	$	99.87
20-21LF16NMA	$	276.89	30-21HF4NMD	$	63.88	60-21HF9HM6	$	99.87
20-21LF16NMB	$	266.26	10-21HF4NMF	$	114.47	60-21HF9HM9	$	171.83
20-21LF16NMC	$	239.69	10-21HF4NMH	$	166.52	60-21HF4XM6	$	141.16
20-21LF16NMD	$	239.69	30-21HF6NMA	$	73.30	60-21HF2XM4	$	127.75
10-21LF16NMF	$	231.60	30-21HF6NMB	$	67.99	60-21XF6HM4	$	141.16
10-21LF16NMH	$	250.32	30-21HF6NMC	$	75.96	100-21XF4XM6	$	178.35
20-21NFALM4	$	86.58	30-21HF6NMD	$	75.96	100-21XF6XM4	$	142.49
20-21NFBLM4	$	55.91	10-21HF6NMF	$	114.47	15-21HF4AM2	$	101.19
20-21NFCLM4	$	71.85	10-21HF6NMH	$	154.45	15-21LF4AM2	$	81.27
20-21NFDLM4	$	75.96	30-21HF9NMA	$	114.47	10-21LF4AM4	$	85.25
10-21NFFLM4	$	153.11	30-21HF9NMB	$	102.52	10-21LF4AM6	$	85.25
20-21NFALM6	$	86.58	30-21HF9NMC	$	102.52	15-21LF6AM2	$	85.25
20-21NFBLM6	$	71.85	30-21HF9NMD	$	102.52	10-21LF6AM4	$	87.91
20-21NFCLM6	$	73.30	10-21HF9NMF	$	125.10	10-21LF6AM6	$	96.52
20-21NFDLM6	$	77.17	10-21HF9NMH	$	166.52	15-21LF9AM2	$	94.55
10-21NFFLM6	$	155.77	30-21NFAHM2	$	70.64	10-21LF9AM4	$	97.21
10-21NFHLM6	$	183.67	30-21NFBHM2	$	70.64	10-21LF9AM6	$	97.21
20-21NFALM9	$	86.58	30-21NFCHM2	$	70.64	15-21AF1LM4	$	87.91
20-21NFBLM9	$	70.64	30-21NFAHM4	$	50.60	15-21AF1LM6	$	95.88
20-21NFCLM9	$	73.30	30-21NFBHM4	$	54.71	15-21AF1LM9	$	102.52
20-21NFDLM9	$	75.96	30-21NFCHM4	$	63.88	15-21AF2LM4	$	97.21
10-21NFFLM9	$	153.11	30-21NFDHM4	$	66.54	15-21AF2LM6	$	101.19
10-21NFHLM9	$	185.12	30-21NFAHM6	$	73.30	15-21AF2LM9	$	114.47
20-21NFALM12	$	198.40	30-21NFBHM6	$	54.71	10-21AF4LM4	$	107.95
20-21NFBLM12	$	194.41	30-21NFCHM6	$	65.33	10-21AF4LM6	$	113.26
20-21NFCLM12	$	190.43	30-21NFDHM6	$	74.51	10-21AF4LM9	$	127.75
20-21NFDLM12	$	163.86	10-21NFFHM6	$	125.10	10-21AF6LM4	$	110.61
10-21NFFLM12	$	222.42	30-21NFAHM9	$	75.96	10-21AF6LM6	$	115.92
10-21NFHLM12	$	231.60	30-21NFBHM9	$	71.85	10-21AF6LM9	$	130.41
20-21NFALM16	$	234.26	30-21NFCHM9	$	74.51	15-21NFAAM2	$	79.94
20-21NFBLM16	$	234.26	30-21NFDHM9	$	73.30	15-21NFBAM2	$	79.94
20-21NFCLM16	$	217.11	10-21NFFHM9	$	122.44	15-21NFCAM2	$	79.94
20-21NFDLM16	$	173.04	10-21NFHHM9	$	167.73	10-21NFAAM4	$	66.54
10-21NFFLM16	$	251.64	30-21NFBXM4	$	102.52	10-21NFBAM4	$	66.54
10-21NFHLM16	$	255.63	60-21HF2HM4	$	66.54	10-21NFCAM4	$	73.30
30-21HF2NMA	$	86.58	60-21HF2HM6	$	66.54	10-21NFDAM4	$	78.61
30-21HF2NMB	$	86.58	60-21HF2HM9	$	89.24	10-21NFAAM6	$	66.54
30-21HF2NMC	$	86.58	60-21HF4HM2	$	70.64	10-21NFBAM6	$	66.54
30-21HF2NMD	$	89.24	60-21HF4HM6	$	86.58	10-21NFCAM6	$	73.30
			60-21HF4HM9	$	86.58	10-21NFDAM6	$	78.61

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Adapters: Male to Male
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20-21LM4LM12	$	126.55
20-21LM6LM12	$	126.55
20-21LM9LM12	$	206.37
20-21LM12LM12	$	139.83
20-21LM4LM16	$	206.37
20-21LM6LM16	$	206.37
20-21LM9LM16	$	206.37
20-21LM12LM16	$	206.37
20-21LM16LM16	$	222.42
20-21LM12HM4	$	126.55
20-21LM12HM6	$	126.55
20-21LM12HM9	$	126.55
20-21LM16HM4	$	206.37
20-21LM16HM6	$	206.37
20-21LM16HM9	$	206.37
30-21HM4HM16	$	219.77
30-21HM6HM16	$	219.77
30-21HM9HM16	$	219.77
20-21LM12NMA	$	234.26
20-21LM12NMB	$	193.09
20-21LM12NMC	$	193.09
20-21LM12NMD	$	193.09
10-21LM12NMF	$	193.09
10-21LM12NMH	$	206.37
20-21LM16NMA	$	338.10
20-21LM16NMB	$	258.29
20-21LM16NMC	$	245.01
20-21LM16NMD	$	245.01
10-21LM16NMF	$	258.29
10-21LM16NMH	$	236.91
30-21HM2NMA	$	119.78
30-21HM2NMB	$	117.13
30-21HM4NMA	$	69.20
30-21HM4NMB	$	71.85
30-21HM4NMC	$	102.52
30-21HM4NMD	$	102.52
10-21HM4NMF	$	209.02
30-21HM6NMB	$	107.95
30-21HM6NMC	$	107.95
30-21HM6NMD	$	107.95
30-21HM9NMB	$	131.86
30-21HM9NMC	$	131.86
30-21HM9NMD	$	131.86
10-21HM9NMF	$	185.12
10-21HM9NMH	$	217.11
60-21HM2HM2	$	119.78
60-21HM2HM4	$	119.78
60-21HM4HM4	$	70.64
60-21HM4HM6	$	103.85
60-21HM4HM9	$	130.41
60-21HM6HM6	$	81.27
60-21HM6HM9	$	130.41
60-21HM9HM9	$	101.19
100-21XM4XM4	$	114.47
100-21XM4XM6	$	114.47
15-21AM1AM1	$	79.94
15-21AM1NMA	$	79.94
15-21AM1AM2	$	90.56
15-21AM1NMB	$	79.94
15-21AM1HM2	$	78.61
15-21AM1HM4	$	78.61
15-21AM2AM2	$	79.94
15-21AM2NMA	$	74.51
15-21AM2NMB	$	77.17
15-21AM2HM2	$	110.61
15-21AM2HM4	$	79.94
15-21AM2LM4	$	74.51
15-21AM2LM6	$	75.96
15-21AM2LM9	$	79.94
10-21AM4AM4	$	102.52
10-21AM4NMB	$	102.52
10-21AM4NMD	$	102.52
10-21AM4HM4	$	102.52
10-21AM4LM4	$	78.61
10-21AM4LM6	$	81.27
10-21AM4LM9	$	85.25
10-21AM6AM6	$	98.53
10-21AM6LM4	$	85.25
10-21AM6LM6	$	101.19
10-21AM6LM9	$	91.90
10-21AM6XM4	$	198.40
10-21AM6XM6	$	198.40
20-21LM4LM4	$	73.30
20-21LM4LM6	$	98.53
20-21LM4LM9	$	109.16
20-21LM4NMB	$	75.96
20-21LM4NMD	$	102.52
20-21LM4HM2	$	103.85
20-21LM4HM4	$	103.85
20-21LM4HM6	$	109.16
20-21LM4HM9	$	98.53
20-21LM6LM6	$	98.53
20-21LM6LM9	$	109.16
20-21LM6NMB	$	102.52
20-21LM6NMC	$	102.52
20-21LM6NMD	$	102.52
20-21LM6HM4	$	67.99
20-21LM6HM6	$	103.85
20-21LM9LM9	$	101.19
20-21LM9NMB	$	110.61
20-21LM9NMC	$	110.61
20-21LM9NMD	$	115.92
10-21LM9NMF	$	173.04
10-21LM9NMH	$	222.42
20-21LM9HM4	$	115.92
20-21LM9HM9	$	115.92

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Couplings: Female to Female (Catalog Pages 113)		
15-21AF1	$	70.64
15-21AF2	$	70.64
10-21AF4	$	79.94
10-21AF6	$	90.56
15-21AF1AF2	$	81.27
10-21AF1AF4	$	82.59
10-21AF1AF6	$	86.58
10-21AF2AF4	$	85.25
10-21AF2AF6	$	86.58
10-21AF4AF6	$	90.56
15-21AF1HF2	$	83.93
15-21AF1HF4	$	83.93
15-21AF1HF6	$	90.56
15-21AF1HF9	$	93.22
15-21AF2HF2	$	83.93
15-21AF2HF4	$	83.93
15-21AF2HF6	$	93.22
15-21AF2HF9	$	123.89
10-21AF4HF2	$	87.91
10-21AF4HF4	$	87.91
10-21AF4HF6	$	91.90
10-21AF4HF9	$	165.75
10-21AF6HF2	$	89.24
10-21AF6HF4	$	89.24
10-21AF6HF6	$	95.88
10-21AF6HF9	$	127.75
15-21AF1NFA	$	73.30
15-21AF1NFB	$	73.30
15-21AF1NFC	$	74.51
15-21AF1NFD	$	79.94
15-21AF2NFA	$	73.30
15-21AF2NFB	$	73.30
15-21AF2NFC	$	74.51
15-21AF2NFD	$	82.59
10-21AF4NFA	$	65.33
10-21AF4NFB	$	65.33
10-21AF4NFC	$	68.56
10-21AF4NFD	$	75.96
10-21AF4NFF	$	142.49
10-21AF4NFH	$	179.80
10-21AF6NFA	$	65.33
10-21AF6NFB	$	65.33
10-21AF6NFC	$	65.33
10-21AF6NFD	$	82.59
10-21AF6NFF	$	145.14
10-21AF6NFH	$	182.46
20-21LF4	$	55.91
20-21LF6	$	70.64
20-21LF9	$	83.93
20-21LF12	$	228.94
20-21LF16	$	314.19
30-21HF16	$	354.17
15-21LF24	$	828.10
20-21LF4NFA	$	66.54
20-21LF4NFB	$	61.23
20-21LF4NFC	$	63.88
20-21LF4NFD	$	66.54
10-21LF4NFF	$	151.79
10-21LF4NFH	$	183.67
20-21LF6NFA	$	78.61
20-21LF6NFB	$	75.96
20-21LF6NFC	$	81.27
20-21LF6NFD	$	90.56
10-21LF6NFF	$	157.10
10-21LF6NFH	$	183.67
20-21LF9NFA	$	81.27
20-21LF9NFB	$	83.93
20-21LF9NFC	$	89.24
20-21LF9NFD	$	91.90
10-21LF9NFF	$	158.55
10-21LF9NFH	$	189.09
20-21LF12NFA	$	214.45
20-21LF12NFB	$	219.77
20-21LF12NFC	$	222.42
20-21LF12NFD	$	197.06
10-21LF12NFF	$	260.95
10-21LF12NFH	$	271.57
20-21LF16NFA	$	296.93
20-21LF16NFB	$	255.63
20-21LF16NFC	$	252.98
20-21LF16NFD	$	231.60
10-21LF16NFF	$	260.95
10-21LF16NFH	$	271.57
20-21LF4LF6	$	81.27
20-21LF4LF9	$	89.24
20-21LF6LF9	$	99.87
20-21LF4LF12	$	241.02
20-21LF6LF12	$	275.68
20-21LF9LF12	$	195.74
20-21LF4LF16	$	250.32
20-21LF6LF16	$	280.99
20-21LF9LF16	$	260.95
20-21LF12LF16	$	270.37
20-21LF4HF2	$	101.19
20-21LF4HF4	$	94.55
20-21LF4HF6	$	101.19
20-21LF4HF9	$	110.61
20-21LF6HF4	$	94.55
20-21LF6HF6	$	99.87
20-21LF6HF9	$	122.44
20-21LF9HF2	$	106.50
20-21LF9HF4	$	107.95
20-21LF9HF6	$	111.81
20-21LF9HF9	$	115.92
20-21LF12HF4	$	217.11
20-21LF12HF6	$	215.66
20-21LF12HF9	$	215.66
20-21LF16HF4	$	242.35
20-21LF16HF6	$	251.64
20-21LF16HF9	$	283.65
60-21HF2	$	86.58
60-21HF4	$	69.20
60-21HF6	$	85.25
60-21HF9	$	119.78
100-21XF4	$	125.10
150-21XF6	$	138.51
60-21HF2HF4	$	86.58
60-21HF2HF6	$	91.90
60-21HF2HF9	$	117.13
60-21HF4HF6	$	90.56
60-21HF4HF9	$	114.47
60-21HF6HF9	$	122.44
60-21HF4XF6	$	142.49
30-21HF4HF16	$	234.26
30-21HF2NFA	$	70.64
30-21HF2NFB	$	73.30
30-21HF2NFC	$	75.96
30-21HF2NFD	$	83.93
10-21HF2NFF	$	141.16
10-21HF2NFH	$	189.09
30-21HF4NFA	$	55.91
30-21HF4NFB	$	55.91
30-21HF4NFC	$	65.33

30-21HF4NFD	$	66.54
10-21HF4NFF	$	138.51
10-21HF4NFH	$	171.83
30-21HF6NFA	$	102.52
30-21HF6NFB	$	94.55
30-21HF6NFC	$	94.55
30-21HF6NFD	$	97.21
10-21HF6NFF	$	138.51
10-21HF6NFH	$	178.35
30-21HF9NFA	$	103.85
30-21HF9NFB	$	102.52
30-21HF9NFC	$	102.52
30-21HF9NFD	$	107.95
10-21HF9NFF	$	151.79
10-21HF9NFH	$	183.67
15-21AF1LF4	$	91.90
15-21AF1LF6	$	101.19
15-21AF1LF9	$	115.92
15-21AF1LF16	$	283.65
15-21AF2LF4	$	95.88
15-21AF2LF6	$	102.52
15-21AF2LF9	$	115.92
15-21AF2LF16	$	255.63
10-21AF4LF4	$	99.87
10-21AF4LF6	$	102.52
10-21AF4LF9	$	117.13
10-21AF6LF4	$	101.19
10-21AF6LF6	$	103.85
10-21AF6LF9	$	118.58
NPT Adapters		
(Catalog Page 109)		
15-21NFA	$	90.56
15-21NFB	$	90.56
15-21NFC	$	90.56
15-21NFD	$	113.26
10-21NFF	$	197.06
10-21NFH	$	202.38
15-21NFBNFC	$	97.21
15-21NFBNFD	$	107.95
15-21NFCNFD	$	107.95
15-21NMANMA	$	77.17
15-21NMBNMB	$	77.17
15-21NMCNMC	$	77.17
15-21NMDNMD	$	77.17

10-21NMFNMF	$	125.10
10-21NMHNMH	$	202.38
15-21NMBNMC	$	82.59
15-21NMBNMD	$	87.91
15-21NMCNMD	$	87.91
15-21NFANMA	$	105.29
15-21NFANMB	$	105.29
15-21NFANMC	$	105.29
15-21NFANMD	$	122.44
15-21NFBNMA	$	98.53
15-21NFBNMB	$	98.53
15-21NFBNMC	$	98.53
15-21NFBNMD	$	105.29
15-21NFCNMB	$	106.50
15-21NFCNMD	$	113.26
15-21NFDNMA	$	105.29
15-21NFDNMB	$	105.29
15-21NFDNMC	$	105.29
15-21NFDNMD	$	125.10
10-21NFFNMD	$	150.45
10-21NFFNMH	$	154.45
10-21NFHNMD	$	218.32
10-21NFHNMF	$	356.82
Hose Adapters		
(Catalog Page 111)		
40-21HM4HA9	$	77.17
30-21HM4HA12	$	77.17
26-21HM4HA16	$	82.59
40-21HM6HA9	$	82.59
30-21HM6HA12	$	82.59
26-21HM6HA16	$	167.79
40-21HM9HA9	$	87.91
30-21HM9HA12	$	87.91
26-21HM9HA16	$	87.91
20-21LM4HA9	$	77.17
20-21LM4HA12	$	77.17
20-21LM4HA16	$	82.59
20-21LM6HA9	$	77.17
20-21LM6HA12	$	77.17
20-21LM6HA16	$	118.24
20-21LM9HA9	$	77.17
20-21LM9HA12	$	77.17
20-21LM9HA16	$	82.59
15-21NMDHA16	$	87.91

20-21LM12HA9	$	102.52
20-21LM12HA12	$	107.95
20-21LM12HA16	$	122.44
20-21LM12HA21	$	195.74
20-21LM16HA9	$	102.52
20-21LM16HA12	$	124.10
20-21LM16HA16	$	133.19
20-21LM16HA21	$	143.82
15-21NMBHA9	$	71.85
15-21NMBHA12	$	77.17
15-21NMBHA16	$	82.59
15-21NMCHA9	$	71.85
15-21NMCHA12	$	77.17
15-21NMCHA16	$	82.59
15-21NMDHA9	$	71.85
15-21NMDHA12	$	82.59
15-21NMDHA16	$	87.91
10-21NMFHA12	$	175.70
10-21NMFHA16	$	175.70
10-21NMHHA16	$	193.09
40-21HA9HA9	$	78.61
26-21HA9HA12	$	82.59
26-21HA9HA16	$	87.91
26-21HA12HA12	$	87.91
26-21HA12HA16	$	87.91
26-21HA16HA16	$	87.91

High Pressure Equipment
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Thermocouple Adapters		
(Catalog Page 118)		
15-21AF1AM2-T	$	105.29
10-21AF1AM4-T	$	105.29
10-21AF1AM6-T	$	135.85
15-21AF1NMA-T	$	74.51
15-21AF1NMB-T	$	74.51
15-21AF1NMC-T	$	74.51
15-21AF1NMD-T	$	74.51
10-21AF1NMF-T	$	110.61
10-21AF1NMH-T	$	143.82
15-21AF1LM4-T	$	94.55
15-21AF1LM6-T	$	102.52
15-21AF1LM9-T	$	110.61
15-21AF1HM2-T	$	107.95
15-21AF1HM4-T	$	107.95
15-21AF1HM6-T	$	135.85
15-21AF1HM9-T	$	155.77
15-21AF2LM4-T	$	99.87
15-21AF2LM6-T	$	102.52
15-21AF2LM9-T	$	110.61
10-21AF2AM4-T	$	113.26
10-21AF2AM6-T	$	130.41
15-21AF2HM4-T	$	115.92
15-21AF2HM6-T	$	122.44
15-21AF2HM9-T	$	122.44
15-21AF2NMA-T	$	77.17
15-21AF2NMB-T	$	77.17
15-21AF2NMC-T	$	77.17
15-21AF2NMD-T	$	77.17
10-21AF2NMF-T	$	113.26
10-21AF2NMH-T	$	143.82
10-21AF4HM9-T	$	127.75
10-21AF4LM9-T	$	123.89
Pressure Gauges		
(Catalog Page 120)		
4PG5	$	571.15
4PG10	$	577.79
6PG20	$	971.80
6PG20C	$	914.69
6PG30	$	1,212.81
6PG30C	$	1,101.00
6PG50	$	1,988.88
6PG75	$	2,098.04
6PG100	$	2,445.56
6PG150	$	4,678.10
Tooling		
Reseating Tools		
(Catalog Page 124)		
RTLF4	$	115.92
RTLF6	$	133.19
RTLF9	$	173.04
RTHF2	$	115.92
RTHF4	$	115.92
RTHF6	$	133.19
RTHF9	$	173.04
RTXF4	$	115.92
RTXF6	$	133.19
Coning Tools		
(Catalog Page 125)		
Complete Tool		
2-LF4	$	525.87
2-LF6	$	525.87
2-LF9	$	662.92
2-HF2	$	581.77
2-HF4	$	525.87
2-HF6	$	525.87
2-HF9	$	662.92
2-HF9-40	$	662.92
2-XF4	$	533.96
2-XF6	$	552.55
Cutter (Spare)		
2-LF4L*	$	155.77
2-LF6L*	$	155.77
2-LF9L	$	155.77
2-HF2L*	$	189.09
2-HF4L*	$	155.77
2-HF6L*	$	155.77
2-HF9L	$	155.77
2-HF9L-40	$	155.77
2-XF6L*	$	190.43
Collet (Spare)		
2-LF4P	$	117.13
2-LF6P	$	117.13
2-LF9P	$	117.13
2-HF2P*	$	117.13
2-HF4P*	$	117.13
2-HF6P*	$	117.13
2-HF9P	$	117.13
2-XF6P*	$	117.13
*Interchangeable in any of the assemblies except 2-HF9 and 2-LF9.		
Threading Tools		
(Catalog Page 125)		
Complete Tool		
2-MLF4	$	356.82
2-MLF6	$	356.82
2-MLF9	$	356.82
2-MHF2	$	291.62
2-MHF4	$	356.82
2-MHF6	$	356.82
2-MHF9	$	356.82
2-MXF6	$	356.82
Threading Die (Spare)		
1/8-40LH	$	106.50
1/4-28LH	$	131.86
3/8-24LH*	$	131.86
9/16-18LH*	$	131.86
Guide Bushing (Spare)		
2-MLF4P*	$	60.02
2-MLF6P*	$	60.02
2-MLF9P*	$	60.02
2-MHF4P*	$	60.02
2-MHF6P*	$	60.02
2-MHF9P*	$	60.02
2-MXF6P*	$	60.02
*Interchangeable in any of the assemblies except 2-MHF2.		
Rapid Tap 4 oz	$	33.33

High Pressure Equipment
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Pumping Systems, Intensifiers, Gas Boosters and High Pressure Generators

High Pressure Generators

87-6-5	$ 2,489.51
62-6-10	$ 2,489.51
50-6-15	$ 2,489.51
37-6-30	$ 2,489.51

Vernier Indicator 401491

(Option for above models)	$ 228.41

Spare Packing
(See spare parts list)

Extra Capacity Models

112-5.75-5	$ 5,625.98
81-5.75-10	$ 5,625.98
68-5.75-15	$ 5,625.98
50-5.75-30	$ 5,625.98
37-5.75-60	$ 5,625.98
31-5.75-75	$ 6,154.51
25-5.75-100	$ 7,138.25

Spare Packing
(See spare parts list)

Oil & Gas Products
Nipples, Fittings, Couplings, Check Valves, Filters
(Catalog Page 84)

60-HM4-2.75-SGS	$ 39.04
60-HM4-6-SGS	$ 47.94
60-HM4-8-SGS	$ 61.23
60-HM4-10-SGS	$ 70.64
60-HM4-12-SGS	$ 119.15
60-HM6-3-SGS	$ 45.29
60-HM6-6-SGS	$ 55.91
60-HM6-8-SGS	$ 67.99
60-HM6-10-SGS	$ 73.30
60-HM6-12-SGS	$ 78.61
60-HM9-4-SGS	$ 63.88
60-HM9-6-SGS	$ 73.30
60-HM9-8-SGS	$ 86.58
60-HM9-10-SGS	$ 99.87
60-HM9-12-SGS	$ 111.81
60-2HM4-SGS	$ 17.39
60-2HM6-SGS	$ 20.04
60-2HM9-SGS	$ 32.00
60-2H4-SGS	$ 12.08
60-2H6-SGS	$ 12.08
60-2H9-SGS	$ 17.39
60-7HM4-SGS	$ 14.73
60-7HM6-SGS	$ 20.04
60-7HM9-SGS	$ 28.01
60-22HF4-SGS	$ 105.29
60-22HF6-SGS	$ 105.29
60-22HF9-SGS	$ 163.86
60-23HF4-SGS	$ 135.85
60-23HF6-SGS	$ 159.76
60-23HF9-SGS	$ 213.00
60-24HF4-SGS	$ 243.49
60-24HF6-SGS	$ 197.06
60-24HF9-SGS	$ 227.73
60-21HF4-U-SGS	$ 138.51
60-21HF6-U-SGS	$ 155.77
60-21HF9-U-SGS	$ 227.73
60-21HF4-B-SGS	$ 163.86
60-21HF6-B-SGS	$ 230.39
60-21HF9-B-SGS	$ 252.98
60-21HF4-C-SGS	$ 85.25
60-21HF6-C-SGS	$ 105.29
60-21HF9-C-SGS	$ 149.13
60F-51HF4-SGS	$ 760.24
60F-51HF6-SGS	$ 867.95
60F-51HF9-SGS	$ 989.18
60-41HF4-SGS	$ 428.66
60-41HF6-SGS	$ 540.48
60-41HF9-SGS	$ 678.98
30-41HF4-T-SGS	$ 480.71
30-41HF6-T-SGS	$ 505.94
30-41HF9-T-SGS	$ 623.07
60-41HF4-T-SGS	$ 505.94
60-41HF6-T-SGS	$ 609.67
60-41HF9-T-SGS	$ 686.95

Valves (Catalog Page 86)

30-11HF4-SGS	$ 342.21
30-11HF6-SGS	$ 384.84
30-11HF9-SGS	$ 411.40
60-11HF4-SGS	$ 390.15
60-11HF6-SGS	$ 404.75
60-11HF9-SGS	$ 411.40
30-12HF4-SGS	$ 342.21
30-12HF6-SGS	$ 384.84
30-12HF9-SGS	$ 411.40
60-12HF4-SGS	$ 390.15
60-12HF6-SGS	$ 404.75
60-12HF9-SGS	$ 411.40
30-13HF4-SGS	$ 372.76
30-13HF6-SGS	$ 420.69
30-13HF9-SGS	$ 593.73
60-13HF4-SGS	$ 414.06
60-13HF6-SGS	$ 433.98
60-13HF9-SGS	$ 509.93
30-14HF4-SGS	$ 372.76
30-14HF6-SGS	$ 420.69
30-14HF9-SGS	$ 593.73
60-14HF4-SGS	$ 414.06
60-14HF6-SGS	$ 433.98
60-14HF9-SGS	$ 509.93
30-15HF4-SGS	$ 483.37
30-15HF6-SGS	$ 604.36
30-15HF9-SGS	$ 725.59
60-15HF4-SGS	$ 540.48
60-15HF6-SGS	$ 604.36
60-15HF9-SGS	$ 889.33
30-12HF4-R-SGS	$ 460.67
30-12HF6-R-SGS	$ 627.06
30-12HF9-R-SGS	$ 668.36
60-12HF4-R-SGS	$ 483.37
60-12HF6-R-SGS	$ 686.95
60-12HF9-R-SGS	$ 710.86

Well Head Gauge and Bleed Valves
(Catalog Page 90)

30-GVHF9	$ 478.06
30-GVHF9-SGS	$ 660.26
30-BVHM9	$ 183.67
30-BVHM9-SGS	$ 220.97

High Pressure Equipment
A GRACO® Company

Spare Parts

Taper Seal

15,000 psi

AF1 Series Valves

Handle 200263	$	18.60
Stem Nut 200566	$	38.64
Lock Nut 201030	$	12.45
Stem 202645	$	94.55
Top Washer 200267	$	17.39
Buna O-ring B00101	$	7.97
Viton O-ring B00614	$	10.63
Silicone O-ring B00149	$	10.63
Teflon Packing B00195*	$	10.63
Grafoil Packing B01379	$	14.73
Bottom Washer 200266	$	14.73
Reg. Stem Assy 209350	$	94.55

15,000 psi

AF2 Series Valves

Handle 200263	$	18.60
Stem Nut 200265	$	38.64
Lock Nut 200268	$	12.08
Stem 202645	$	94.55
Top Washer 200267	$	17.39
Buna O-ring B00101	$	7.97
Viton O-ring B00614	$	10.63
Silicone O-ring B00149	$	10.63
Teflon Packing B00195*	$	10.63
Grafoil Packing B01379	$	14.73
Bottom Washer 200266	$	14.73
Reg. Stem Assy 209350	$	94.55

10,000 psi

AF4 and AF6 Series Valves

Handle 200151	$	23.95
Locking Device 200657	$	21.25
Stem Assembly 207461	$	127.75
Lower Stem Only 207428	$	60.02
Upper Stem Assy 207981	$	67.99
Top Washer 200154	$	17.39
Buna O-ring B00102	$	7.97
Viton O-ring B-849	$	10.12
Silicone O-ring B00147	$	10.63
Teflon Packing B00181*	$	10.63
Grafoil Packing B01417	$	15.94
w/Grafoil Packing B01357 (1 ea.)	$	16.68
Bottom Washer 200156	$	14.73
Lower Stem Regulating 209347	$	65.33

Ball Check Valves

Taper Seal (AF1, AF2, AF4, AF6)

Ball B00521 (316 SS)	$	9.42
Ball Support 207900	$	37.32
Spring B00551	$	14.73
Gasket B00552	$	13.28

Line Filter Discs

AF4, AF6, NFB, NFC, NFD: (4 per set)

0.5 Micron B01442 Set	$	60.02
2 Micron B01443 Set	$	60.02
5 Micron B01444 Set	$	60.02
10 Micron B00923 Set	$	60.02
20 Micron B01445 Set	$	60.02
40 Micron B00610 Set	$	60.02
100 Micron B00607 Set	$	60.02

AF1, AF2: (3 per set) HF2 old style

0.5 Micron B01450 Set	$	61.23
2 Micron B01451 Set	$	61.23
5 Micron B01452 Set	$	61.23
10 Micron B00475 Set	$	61.23
20 Micron B01453 Set	$	61.23
40 Micron B00616 Set	$	61.23
100 Micron B00474 Set	$	61.23

Soft Seat Check Valves

Poppet 202272	$	60.02
O-ring B00159 Buna	$	7.97
O-ring B00152 Teflon	$	7.97
O-ring B00870 Viton	$	9.42
Spring B00551	$	14.73
Gasket B00552	$	13.28

Safety Heads (Rupture Assemblies)

Hold Down Nut 200204	$	66.54
Hold Down Ring 200130	$	58.57

Medium Pressure - New Style

20,000 psi

LF4 and LF6 Series Valves

Handle 212435	$	37.32
Stem Nut 213935	$	57.36
Locking Device 207733	$	20.04
Set Screw B01489	$	9.42
Upper Stem 213934	$	65.33
Lower Stem 213933	$	58.57
Top Washer 207731	$	20.04
Polypak Seal B01388	$	23.91
Grafoil Packing B01391 Set/2	$	21.25
Teflon Packing B01392 Set/2	$	23.91
Bottom Washer 207732	$	20.04
LF4 Removable Seat Gland 208512	$	163.86
LF6 Removable Seat Gland 208431	$	163.86
Lower Regulating Stem Assembly 209355 (+MTS)	$	113.26
Lens Ring 208432	$	71.85

20,000 psi - New Style

LF9 Series Valves

Handle 212436	$	28.01
Stem Nut 207737-AM45	$	58.57
Locking Device 207734	$	20.04
Set Screw B01489	$	9.42
Upper Stem Assembly 212431	$	119.78
Top Washer 207738	$	25.36
Polypak Seal B01387	$	23.91
Grafoil Packing B01386 Set/2	$	21.25
Teflon Packing 207341 Set/2	$	22.70
Bottom Washer 207342	$	22.70
Std. Lower Stem 207467	$	77.17
Lower Reg. Stem 208108	$	113.49
High Temp. Stem Assembly 208387	$	268.92
Removable Seat Gland 208592	$	163.86
Lens Ring 200897	$	71.85

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20,000 psi		
LF12 Series Valves		
Handle 208673	$	29.35
Handle Collar 208674	$	163.86
Packing Gland 208675	$	199.72
Locking Device 208669	$	25.36
Bearing Washer 208676	$	39.97
Stem Sleeve 208677	$	114.47
Upper Stem 208678	$	101.19
Lower Stem 208679	$	105.29
Top Washer 208754	$	52.08
Teflon Packing 208740 Set/2	$	22.70
Grafoil Pkg B01455 Set/3	$	53.26
Polypak B01431	$	23.91
Bottom Washer 208755	$	52.05
Rem. Seat Gland 209280	$	227.73
Lens Ring 209279	$	99.87
20,000 psi		
LF16 Series Valves		
Handle 208673	$	29.35
Handle Collar 208680	$	167.73
Packing Gland 208681	$	205.03
Locking Device 208670	$	26.69
Bearing Washer 208682	$	43.95
Stem Sleeve 208683	$	205.03
Upper Stem 208684	$	170.38
Lower Stem 208685	$	142.49
Bearing Washer 208686	$	49.27
Top Washer 208756	$	65.33
Teflon Pkg 208741 Set/2	$	23.91
Grafoil Pkg B01440 Set/2	$	52.05
Polypak B01742 (1)	$	23.91
Bottom Washer 208757	$	65.33
Rem. Seat Gland 209282	$	286.30
Lens Ring 209281 10K	$	133.19
Lens Ring 209972 20K	$	121.23

Ball Check Valves		
Medium Pressure (LF4 and LF6)		
Ball B00521 (316 SS)	$	9.42
Ball Support 207900	$	37.32
Spring B00551	$	14.73
Gasket B00552	$	13.28
Medium Pressure (LF9)		
Ball B00522 (316 SS)	$	10.63
Ball Support 207901	$	39.97
Spring B00958	$	18.60
Gasket B00959	$	14.73
Line Filter Discs		
LF4, LF6 and LF9 Series (4 per set)		
0.5 Micron B01442 Set	$	60.02
2 Micron B01443 Set	$	60.02
5 Micron B01444 Set	$	60.02
10 Micron B00923 Set	$	60.02
20 Micron B01445 Set	$	60.02
40 Micron B00610 Set	$	62.68
100 Micron B00607 Set	$	60.02
Spacer 201104	$	21.25
Soft Seat Check Valves		
LF4 and LF6 Series		
Poppet 202272	$	60.02
O-ring B00159 Buna	$	7.97
O-ring B00152 Teflon	$	7.97
O-ring B00870 Viton	$	9.42
Spring B00551	$	14.73
Gasket B00552	$	13.28
LF9 Series		
Poppet 204740	$	68.21
O-ring B00104 Buna	$	12.08
O-ring B00161 Teflon	$	13.28
Spring B00958	$	18.60
Gasket B00959	$	14.73

Safety Heads (Rupture Assemblies)		
Hold Down Nut 200204	$	66.54
Hold Down Ring 200130	$	58.57
High Pressure		
30,000 psi		
HF2 Series Valves		
Handle 200263	$	18.60
Stem Nut 200265	$	38.64
Lock Nut 200268	$	12.08
Stem 202645	$	94.55
Top Washer 200267	$	17.39
Buna O-ring B00101	$	7.97
Viton O-ring B00614	$	10.63
Silicone O-ring B00149	$	10.63
Grafoil Packing B01379	$	14.73
Teflon Packing B00195*	$	10.63
Bottom Washer 200266	$	14.73
Regulating Stem Assy 209350	$	94.55
30,000 psi - New Style		
HF4, HF6, and HF9 Series Valves		
Handle 212435	$	37.32
Locking Device 200657	$	21.25
Set Screw B01489	$	9.42
Upper Stem 213909	$	65.33
Lower Stem 213910	$	58.56
Top Washer 200154	$	17.39
Buna O-ring B00102	$	7.97
Viton O-ring B00849	$	10.63
Silicone O-ring B00147	$	10.63
Grafoil Packing B01417	$	15.94
Teflon Packing B00181*	$	10.63
Teflon/Buna 209276	$	49.27
Bottom Washer 200156	$	14.73
Bottom Spacer 200155	$	13.28
HF4 Remov. Seat Gland 200750	$	175.69
HF6 Remov. Seat Gland 200751	$	175.69
HF9 Remov. Seat Gland 200752	$	175.69
Lower Regulating Stem Kit 209348	$	61.22
Lens Ring 200753	$	71.85

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30,000 psi		
HF16 Series Valves		
Use LF16, 20,000 psi parts, except:		
Lower Stem 208753	$	139.83
Top Washer 208752	$	77.16
Teflon Pkg 208740 Set/2	$	22.70
Grafoil B01455 Set/2	$	53.26
Polypak B01431	$	23.91
Bottom Washer 208755	$	52.04
Remov. Seat Gland 210915	$	286.30
Lens Ring 210914	$	71.85
60,000 psi - New Style		
HF2, HF4, HF6 and HF9		
Series Valves		
Handle 212435	$	37.31
Locking Device 200657	$	21.25
Set Screw B01489	$	9.42
Upper Stem 213909	$	65.33
Lower Stem 213911	$	58.56
Top Washer 200717 (416)	$	17.39
Buna O-ring B00101	$	7.97
Viton O-ring B00614	$	10.63
Silicone O-ring B00149	$	10.63
Pkg Set Teflon/Nylatron 214089	$	52.04
Teflon Packing B00195	$	10.63
Grafoil Packing B01379	$	14.73
Teflon/Viton 212401	$	60.01
Bottom Washer 200716	$	14.73
Bottom Spacer 200718	$	13.28
HF4 Remov. Seat Gland 200750	$	175.69
HF6 Remov. Seat Gland 200751	$	175.69
HF9 Remov. Seat Gland 200752	$	175.69
Lower Reg. Stem Kit 209349	$	61.22
Lens Ring 201238	$	71.85

Ball Check Valves		
High Pressure (HF2, HF4, HF6, HF9)		
Ball B00516 (440 SS)	$	9.42
Ball Support 207900	$	37.31
Spring B00551	$	14.73
(No Gasket Required)		
* Standard unless otherwise specified		
Line Filter Discs		
HF2, HF4, HF6, HF9: (3 per set)		
0.5 Micron B01446 Set	$	61.22
2 Micron B01447 Set	$	61.22
5 Micron B01448 Set	$	61.22
10 Micron B01407 Set	$	61.22
20 Micron B01449 Set	$	61.22
40 Micron B01408 Set	$	61.22
100 Micron B01409 Set	$	61.22
Soft Seat Check Valves		
HF2, HF4, HF6, HF9		
Poppet 202272	$	60.01
O-ring B00159 Buna	$	7.97
O-ring B00152 Teflon	$	7.97
O-ring B00870 Viton	$	9.42
Spring B00551	$	14.73
Gasket B00310 (60,000 psi only)	$	17.51
Gasket B00552	$	13.28
Safety Heads (Rupture Assemblies)		
Hold Down Nut 200204	$	66.53
Hold Down Ring 200130	$	58.56
Ultra High Pressure		
100,000 & 150,000 psi XF4 and XF6 Series		
Valves		
Handle 200754	$	30.56
Locking Device 203144	$	34.66
Stem Assembly 210127	$	207.69
Top Washer 402485C (17-4 PH)	$	41.30
Nylon/Teflon Packing 208691	$	45.28

Bottom Washer 200716 (17-4 PH)	$	14.73
Packing Gland 402485D	$	74.50
XF4 Remov. Seat Gland	$	175.69
XF6 Remov. Seat Gland 206785	$	175.69
Lens Ring 205434	$	74.50
Specialty Valves		
Micro Control Valves		
Lower Section Stem 207228	$	195.74
Handle 200754	$	29.35
Top Washer 200717	$	17.39
Bottom Washer 200716	$	14.73
Bottom Spacer 200718	$	13.28
Buna O-ring B00101	$	7.97
Viton O-ring B00614	$	10.63
Silicone O-ring B00149	$	10.63
Grafoil Packing B01379	$	14.73
Teflon/Nylon Packing Set 209689	$	52.04
3/4" and 1" NPT Valves		
Handle 208673	$	29.34
Handle Collar 208680	$	167.72
Packing Gland 208681	$	205.03
Locking Device 208670	$	26.69
Bearing Washer 208682	$	43.95
Stem Sleeve 208683	$	205.03
Upper Stem 208684	$	170.38
Lower Stem 208685	$	142.49
Bearing Washer 208686	$	49.27
Top Washer 208756	$	65.33
Teflon Pkg 208741 Set/2	$	23.91
Bottom Washer 208757	$	65.33

High Pressure Equipment
A GRACO® Company

Ball Valves

Handle 208642	$	32.00
Roll Pin B01509	$	7.97
Handle Stop Collar 208643 (2/3 way)	$	42.62
Stop Collar 208730 (3-way 180°)	$	42.62
Handle Stop Collar 208643 (2/3 way)	$	42.62
Stem 208644	$	77.16
Packing Gland 208645	$	43.95
Locking Device 207733	$	20.04
Top Washer 207731	$	20.04
Teflon Packing B01392 Set/2	$	23.91
Bottom Washer 207732	$	20.04
Bearing Washer 208646	$	34.66
Body (2-way) 208641	$	246.33
Body (3-way, Diverter) 208729	$	284.85
0.485 Ball (2-way) 208647	$	32.00
0.485 Ball (3-way) 208721	$	42.62
0.485 Ball (Diverter) 208834	$	47.94
Ball Seat 208648	$	29.34
O-ring B00821	$	10.63
Seat Gland	$	91.90

Trunnion Style Ball Valves
.187 Orifice

Handle 210285	$	30.67
Set Screw 210242	$	17.39
Stop Collar 210616	$	42.62
Stop Collar 210217	$	42.62
Stem 210229	$	43.95
Panel Nut 209219-8	$	39.97
Bearing Washer 210230	$	22.70
O-Ring B01117	$	9.42
Back Up Washer B01578	$	9.42
Ball Seat Assembly 210233	$	53.25
Ball Seat 210231	$	25.36
Ball Seat Holder 210232	$	32.00
Belleville Washer B01604	$	6.76
Packing Washer 210234	$	14.73
Back Up Washer 210286	$	8.97
Body Bushing 210219	$	14.73
Trunnion 2-Way 210598	$	85.25
Trunnion 180° 210235	$	85.25
Trunnion Diverter 210360	$	85.25
Bottom Bushing 210218	$	14.73
Body 601934	$	302.24
O-Ring B00823	$	10.63
O-Ring B01032	$	10.63
Seat Gland	$	143.82
Bottom Gland	$	130.41
Square Adapter 210672	$	102.52

Trunnion Style Ball Valves
.375 Orifice

Handle 210285	$	30.67
Set Screw 210242	$	17.39
Stop Collar 210616	$	42.62
Stop Collar 210217	$	42.62
Stem 210229	$	43.95
Panel Nut 209219-8	$	39.97
Bearing Washer 210230	$	22.70
O-Ring B01117	$	9.42
Back Up Ring B01578	$	9.42
Ball Seat Assembly 210220	$	85.25
Ball Seat 210221	$	46.61
Ball Seat Holder 210222	$	42.62
Belleville Washer B01605	$	9.42
Packing Washer 210223	$	17.39
Back Up Washer 210288	$	10.63
Body Bushing 210219	$	14.73
Trunnion 2-Way 210599	$	91.89
Trunnion 180° 210224	$	91.89
Trunnion Diverter 210359	$	91.89
Bottom Bushing 210218	$	14.73
Body 601935	$	366.11
O-Ring B01584	$	12.08
O-Ring B01583	$	10.63
O-Ring B-809	$	10.35
Seat Gland	$	170.26
Bottom Gland	$	155.77
Square Adapter 210672	$	102.52

Trunnion Style Ball Valves
0.50 Orifice

Handle 208673	$	29.34
Set Screw 211696	$	26.69
Stop Collar 403588	$	79.94
Stem 403587	$	71.85
Bearing Washer 211104	$	38.64
O-Ring B01101	$	10.63
Back Up Washer B01790	$	14.73
Ball Seat Assembly 211096	$	99.86
Ball Seat 211094	$	52.04
Ball Seat Holder 211095	$	61.22
Belleville Washer B01892	$	13.28
Packing Washer 211103	$	42.62
Back Up Washer 211105	$	20.04
Body Bushing 211102	$	66.53
Trunnion 2-Way 211097	$	252.97
Trunnion 180° 211675	$	303.57
Trunnion Diverter 211676	$	303.57
Bottom Bushing 211101	$	34.66
Body 602447	$	1,351.31
O-Ring B01893	$	15.94
O-Ring B01340	$	15.94
Seat Gland	$	298.25
Bottom Gland 211106	$	284.97
Square Adapter 211721	$	113.51

Hipco Air Operated Valves
Normally Closed - air to open

Spring B-1397 60,000 psi, 30,000 psi and Taper Seal	$	85.73
Spring B-1428 20,000 psi series	$	85.73
O-ring B01350 Set/2	$	15.94
O-ring B00105	$	10.63

High Pressure Equipment
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Normally Open - air to close		
Spring B00395	$	39.97
O-ring B00105	$	10.63
10,000 psi Series (AF4 and AF6)		
Stem 207624	$	150.45
Packing Gland 207525	$	105.29
Locknut B01225	$	13.28
30,000 psi Series		
Stem 207622	$	150.45
Packing Gland 207525	$	105.29
Locknut B01225	$	13.28
60,000 psi Series		
Stem 209426	$	150.45
Packing Gland 207525	$	105.29
Locknut B01225	$	13.28
LF4 and LF6 Series		
Stem 208215	$	153.11
Packing Gland 208217	$	101.19
Locknut 202480	$	22.70
LF9 Series (rated 10,000 psi)		
Upper Stem 208799	$	89.24
Lower Stem 207467	$	77.16
Packing Gland 208822	$	105.29
Locknut 208390	$	22.70
Diaphragm B01356	$	37.31
Snap Ring B01351 Set/2	$	15.94
Support Washer 207526	$	26.69
Hex Nut (Nylok) B01354	$	9.42
Remarco Air Operated Valves		
Normally Closed - air to open		
"SD" Series		
Spring B00780	$	117.13
Diaphragm B00828	$	61.22
Gasket B00451	$	18.60

Normally Open - air to close		
"D" Series		
Spring B00395	$	39.97
Diaphragm B00828	$	61.22
Gasket B00451	$	18.60
10,000 psi Series		
Stem 204324	$	150.45
Top/Btm Packing Washer 201764	$	29.34
Teflon Packing B00185 Set/2	$	29.34
Polypak B01406	$	23.91
Top/Btm Packing Washer 201764	$	29.34
Lens Ring 204325	$	71.85
Rem. Seat Gland 200898	$	175.69
20,000 psi Series		
Spring B01068	$	278.33
Spring B00395	$	39.97
Diaphragm B00828	$	61.22
Gasket B00451	$	18.60
Stem 204324	$	150.45
Top/Btm Packing Washer 201764	$	29.34
Teflon Packing B00185 Set/2	$	29.34
Top/Btm Packing Washer 201764	$	29.34
Lens Ring 204325	$	71.85
Rem. Seat Gland 208208	$	175.69
30,000 psi Series		
Stem 202890	$	150.45
Top Washer 200154	$	17.39
Teflon Packing B00181	$	10.63
Bottom Washer 200156	$	14.73
Bottom Spacer 200155	$	13.28
Packing Set Teflon/Nylon 210291	$	52.04
Lens Ring 200753	$	71.85
HF4 Remov. Seat Gland 200750	$	175.69
HF6 Remov. Seat Gland 200751	$	175.69
HF9 Remov. Seat Gland 200752	$	175.69
60,000 psi Series		
Stem 202886	$	150.45
Top Washer 200717	$	17.39
Teflon Packing B00195	$	10.63
Bottom Washer 200716	$	14.73
Bottom Spacer 200718	$	13.28

Pkg Set Teflon/Nylatron 214089	$	52.04
Lens Ring 201238	$	71.85
HF4 Remov. Seat Gland 200750	$	175.69
HF6 Remov. Seat Gland 200751	$	175.69
HF9 Remov. Seat Gland 200752	$	175.69
Grafoil Packing B01379	$	14.73
100,000 psi Series		
Stem 205432A	$	150.45
Pkg Set Teflon/Nylatron 214089	$	52.04
Top Washer 200717	$	17.39
Teflon Packing B00195	$	10.63
Bottom Washer 200716	$	14.73
Bottom Spacer 200718	$	13.28
Lens Ring 205434	$	74.50
XF4 Remov. Seat Gland 208519	$	175.69
XF6 Remov. Seat Gland 206785	$	175.69
Complete Lower Section Valve Assemblies, Including Body, Stem, Packing Components, etc. for assembly to existing Air Operator		
30R12HF4R Lower Unit	$	914.69
30R12HF6R Lower Unit	$	914.69
30R12HF9R Lower Unit	$	1,051.73
10R12LF9R Lower Unit	$	1,051.73
20R12LF9R Lower Unit	$	1,138.31
60R12HF4R Lower Unit	$	914.68
60R12HF6R Lower Unit	$	914.68
60R12HF9R Lower Unit	$	1,051.73
100R12XF6R Lower Unit	$	1,565.52
10R12HF9R Lower Unit	$	914.68
Relief Valves		
Assembly 402633		
Stem 208545	$	114.47
O-ring B00821	$	10.63
Remov. Seat Gland 203502	$	174.48
Stem Seat 208554	$	65.33
Seal Ring Seat		
208547 - 3,000 to 10,999 psi	$	131.86
208537 - 11,000 to 20,999 psi	$	131.86
208548 - 21,000 to 30,000 psi	$	131.86
210857 - 30,001 to 45,000 psi	$	131.86
210858 - 45,001 to 60,000 psi	$	131.86

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High Temperature Valves		
30,000 psi Series		
Handle 200151	$	23.96
Stem Assembly 210154	$	215.66
Packing Gland 200152	$	42.62
Locking Device Collar 207450	$	41.30
High Temp. Housing 206880	$	155.77
Top Packing Washer 200188	$	29.34
Bottom Packing Washer 200187	$	22.70
Grafoil Packing B01357 Set/3	$	35.98
Gasket 213534	$	38.64
20,000 psi Series (LF4 and LF6)		
Handle 200151	$	23.96
Stem Assembly 208262	$	217.11
Packing Gland 207730	$	42.62
Locking Device 207733	$	20.04
High Temp. Housing 208264	$	155.77
Top Washer 207731	$	20.04
Bottom Washer 207732	$	20.04
Grafoil Packing B01391 Set/2	$	21.25
Seal Ring 208265	$	63.88
20,000 psi Series (LF9)		
Handle 200754	$	29.35
Upper Stem Assembly 207979	$	58.56
Lower Stem Assembly 208388	$	187.77
Packing Gland 207737	$	58.57
Locking Device 207734	$	17.43
High Temp. Housing 208389	$	155.77
Top Washer 207738	$	25.36
Bottom Washer 207342	$	22.70
Grafoil Packing B01386 S	$	21.25
Seal Ring 208391	$	73.30

***Note: Polypak packing is supplied as standard and requires no bottom packing washer. When Teflon packing is used, a bottom packing washer must be installed.**

Pressure Generators		
Model 87-6-5		
Shaft 200450 (7/8)	$	754.93
Nut 201482	$	782.82
Top Packing Washer 207357	$	74.50
Teflon Packing B00208*	$	60.01
Bottom Washer 207358	$	66.53
Polypak Seal B01369 Set/2*	$	60.01
Model 62-6-10		
Shaft 200450 (5/8)	$	754.93
Nut 201482	$	782.82
Top Packing Washer 206203	$	74.50
Teflon Packing B00201*	$	60.01
Bottom Washer 201773	$	66.53
Polypak Seal B01370 Set/2*	$	60.01
Model 50-6-15		
Shaft 200450 (1/2)	$	754.93
Nut 201482	$	782.82
Top Washer 205408	$	74.50
Teflon Packing B01066*	$	60.01
Bottom Washer 205410	$	66.53
Polypak Seal B01371 Set/2*	$	60.01
Model 37-6-30		
Shaft 200450 (3/8)	$	754.93
Nut 201482	$	782.82
Top Washer 206234	$	74.50
Teflon Packing B01142	$	60.01
Bottom Washer 206235	$	66.53
Polypak Seal B01372 Set/2*	$	60.01
Model 112-5.75-5		
Shaft 208127	$	400.77
Top Washer 208136	$	110.61
Polypak Seal B01396 Set/2*	$	60.01
Teflon Packing B01398*	$	60.01
Bottom Washer 208220	$	89.23

Shaft 208128	$	1,252.51
Top Washer 208137	$	110.61
Polypak Seal B01401 Set/2*	$	60.01
Teflon Packing B01399	$	60.01
Bottom Washer 208221	$	89.23
Model 68-5.75-15		
Shaft 208129	$	400.77
Top Washer 208138	$	110.61
Polypak Seal B01402 Set/2*	$	60.01
Teflon Packing B01400	$	60.02
Bottom Washer 208222	$	89.24
Model 50-5.75-30		
Shaft 208130	$	400.77
Top Washer 208139	$	110.61
Polypak Seal B01371 Set/2*	$	60.01
Teflon Packing B01066	$	60.01
Bottom Washer 205410	$	66.53
Model 37-5.75-60		
Shaft 204861	$	400.77
Top Washer 205853	$	110.61
Polypak Seal B01373 Set/2*	$	60.01
Teflon Packing B00777 Set/6	$	63.76
Bottom Washer 204117	$	29.34
Model 31-5.75-75		
Shaft 208749	$	400.77
Top Washer 208750	$	110.61
Upper Shaft 209620	$	461.99
Lower Shaft 210125	$	471.50
Polypak Seal B01418 Set/2	$	61.22
Model 25-5.75-100		
Shaft 209619	$	829.43
Top Washer 208765	$	110.61
Upper Shaft 209620	$	461.99
Lower Shaft 209621	$	513.59
Polypak Seal B01419 Set/2	$	61.22

Spare Parts Kits
Taper Seal
Hand Valves / Check Valves

15-AF1-RK $ 139.83
Stem Assembly 202645
Top Washer 200267
Packing B00195
Bottom Washer 200266

15-15AF1-RK $ 274.23
Stem Assembly 202645
Top Washer 200267
Packing B00195
Bottom Washer 200266

15-AF2-RK $ 139.83
Stem Assembly 202645
Top Washer 200267
Packing B00195
Bottom Washer 200266

15-15AF2-RK $ 274.23
Stem Assembly 202645 (2)
Top Washer 200267 (2)
Packing B00195 (2)
Bottom Washer 200266 (2)

10-AF4/6-RK $ 121.23
Lower Stem 213912
Top Washer 200154
Packing B00181
Bottom Washer200156

10-15AF4/6-RK $ 121.23
Lower Stem 213912 (2)
Top Washer 200154 (2)
Packing B00181 (2)
Bottom Washer 200156 (2)

15-41AF1/2-RK $ 75.96
Ball B00521
Ball Support 207900
Spring B00551

15-41AF1T/2T-RK $ 97.21
Poppet 202272
O-Ring (Buna) B00159
Spring B00551
Gasket B00552

10-41AF4/6-RK $ 75.96
Ball B00521
Ball Support 207900
Spring B00551
Gasket B00552

10-41AF4T/6T-RK $ 97.21
Poppet 202272
O-Ring (Buna) B00159
Spring B00551
Gasket B00552

Medium Pressure
Hand Valves - New Style
- Slotted Stem

20-LF4/6-RK $ 121.23
Lower Stem 213933
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732

20-LF4R/6R-RK $ 190.43
Lower Stem 213933
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732
Lens Ring 208432

20-15LF4/6-RK $ 239.69
Lower Stem 213933 (2)
Top Washer 207731 (2)
Packing B01392 (4)
Bottom Washer 207732 (2)

20-LF9-RK $ 150.45
Lower Stem 213927
Packing 207341 (2)
Top Washer 207738
Bottom Washer 207342

20-LF9-R-RK $ 219.77
Lower Stem 213927
Packing 207341 (2)
Top Washer 207738
Bottom Washer 207342
Lens Ring 200897

20-15LF9-RK $ 292.94
Lower Stem 213927 (2)
Packing 207341 (4)
Top Washer 207738 (2)
Bottom Washer 207342 (2)

Medium Pressure
Hand Valves

20-LF12-RK $ 234.26
Lower Stem 208679
Top Washer 208754
Packing 208740 (2)
Bottom Washer 208755

20-15LF12-RK $ 463.32
Lower Stem 208679 (2)
Top Washer 208754 (2)
Packing 208740 (4)
Bottom Washer 208755 (2)

20-12LF12-R-RK $ 334.24
Lower Stem 208679
Top Washer 208754
Packing 208740 (2)
Bottom Washer 208755
Lens Ring 209279

20-LF16-RK $ 302.24
Lower Stem 208685
Top Washer 208756
Packing 208741 (2)
Bottom Washer 208757

20-15LF16-RK $ 597.84
Lower Stem 208685 (2)
Top Washer 208756 (2)
Packing 208741 (4)
Bottom Washer 208757 (2)

20-12LF16-R-RK $ 420.69
Lower Stem 208685
Top Washer 208756
Packing 208741 (2)
Bottom Washer 208757
Lens Ring 209972

Medium Pressure Check Valves

20-41LF4/6-RK $ 75.96
Ball B00521
Ball Support 207900
Spring B00551
Gasket B00552

20-41LF4T/6T-RK $ 97.21
Poppet 202272
O-Ring (Buna) B00159
Spring B00551
Gasket B00552

20-41LF9-RK $ 83.93
Ball B00522
Ball Support 207901
Spring B00958
Gasket B00959

20-41LF9T-RK $ 114.47
Poppet 204740
O-Ring (Buna) B00104
Spring B00958

20-41LF12-RK $ 500.51
Cover 209401
Ball B01461
Spring B01439
Ball Support 209532

20-41LF12-T-RK $ 575.14
Cover 209401
O-Ring B02003
Spring B01439
Poppet 209275

20-41LF16-RK $ 493.99
Cover 209085-H1150
Ball B01470
Spring B01429
Ball Support 209554

20-41LF16-T-RK $ 581.77
Cover 209085-H1150
O-Ring B01421
Spring B01429
Poppet 209086

High Pressure Hand Valves

30-HF2-RK $ 139.83
Stem Assembly 202645
Top Washer 200267
Packing B00195
Bottom Washer 200266

30-15HF2-RK $ 274.23
Stem Assembly 202645 (2)
Top Washer 200267 (2)
Packing B00195 (2)
Bottom Washer 200266 (2)

High Pressure 30,000-60, 000 psi Hand Valves - New Style, Slotted Stem

30-HF4/6/9-RK $ 139.83
Lower Stem 213910
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155

30-HF4/6/9R-RK $ 211.80
Lower Stem 213910
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155
Lens Ring 200753

30-15HF4/6/9-RK $ 274.23
Lower Stem 213910 (2)
Top Washer 200154 (2)
Packing B00181 (2)
Bottom Washer 200156 (2)
Bottom Spacer 200155 (2)

60-HF2/4/6/9-RK $ 143.82
Lower Stem 213911
Top Washer 200717
Packing Set 214089
Bottom Washer 200716

60-HF2/4/6/9R-RK $ 217.11
Lower Stem 213911
Top Washer 200717
Packing Set 214089
Bottom Washer 200716
Lens Ring 201238

60-15HF2/4/6/9-RK $ 286.30
Lower Stem 213911 (2)
Top Washer 200717 (2)
Packing Set 214089 (2)
Bottom Washer 200716 (2)

High Pressure
30,000 PSI Check Valves
30-41HF2/4/6/9T-RK $ 97.21
Poppet 202272
O-Ring (Buna) B00159
Spring B00551
Gasket B00552

High Pressure
60,000 PSI Check Valves
60-41HF2/4/6/9-RK $ 62.68
Ball B00516
Ball Support 207900
Spring B00551

60-41HF4/6/9T-RK $ 98.53
Poppet 202272
O-Ring (Buna) B00159
Spring B00551
Gasket B00310

Ultra High Pressure
Manual Valves
100-XF4/150-XF6-RK $ 339.55
Stem Assembly 210127
Top Washer 402485C
Packing 208691
Bottom Washer 200716

100-15XF4-RK $ 671.01
Stem Assembly 210127 (2)
Top Washer 402485C (2)
Packing 208691
Bottom Washer 200716 (2)

150-15XF6-RK $ 671.01
Stem Assembly 210127 (2)
Top Washer 402485C (2)
Packing 208691
Bottom Washer 200716 (2)

100-12XF4-R-RK $ 412.72
Stem Assembly 210127
Top Washer 402485C
Packing 208691 (3)
Bottom Washer 200716
Lens Ring 205434

150-12XF6-R-RK $ 412.72
Stem Assembly 210127
Top Washer 402485C
Packing 208691 (3)
Bottom Washer 200716
Lens Ring 205434

Ball Valves
Trunnion Ball Valves .187 2-Way
20-71BV-RK $ 320.95
O-Ring B01117 (3)
Back-up Ring B01578
Ball Seat Assembly 210233 (2)
Packing Washer 210234 (2)
Back-up Washer 210286 (4)
Trunnion 210598
O-Ring B00823 (2)
O-Ring B01032
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .187 3-Way 90 Degree
20-73BV-RK $ 320.95
O-Ring B01117 (3)
Back-up Ring B01578
Ball Seat Assembly 210233 (2)
Packing Washer 210234 (2)
Back-up Washer 210286 (4)
Trunnion 210360
O-Ring B00823 (2)
O-Ring B01032
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .375 2-Way
15-74BV-RK $ 403.43
O-Ring B01117
Back-up Ring B01578
Ball Seat Assembly 210220 (2)
Packing Washer 210223 (2)
Back-up Washer 210288 (4)
Trunnion 210599
O-Ring B01584 (2)
O-Ring B01583
O-Ring B00809 (2)
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .375 3-Way
90 Degree
15-76BV-RK $ 403.43
O-Ring B01117
Back-up Ring B01578
Ball Seat Assembly 210220 (2)
Packing Washer 210223 (2)
Back-up Washer 210288 (4)
Trunnion 210359
O-Ring B01584 (2)
O-Ring B01583
O-Ring B00809 (2)
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .500 2-Way
10-80BV-RK $ 717.62
O-Ring B01101
Back-up Ring B01790
Ball Seat Assembly 211096 (2)
Packing Washer 211103 (2)
Back-up Washer 211105 (4)
Trunnion 211097
O-Ring B01893 (3)
O-Ring B01340 (2)
Washer, Bearing 211104
Stem, Trunnion H900 403587

Trunnion Ball Valves .500 3-Way
90 Degree
10-82BV-RK $ 769.42
O-Ring B01101
Back-up Ring B01790
Ball Seat Assembly 211096 (2)
Packing Washer 211103 (2)
Back-up Washer 211105 (4)
Trunnion 211676
O-Ring B01893 (3)
O-Ring B01340 (2)
Washer, Bearing 211104
Stem, Trunnion H900 403587

Ball Valves
Trunnion Ball Valves .187 3-Way
180 Degree
20-72BV-RK $ 320.95
O-Ring B01117 (3)
Back-up Ring B01578
Ball Seat Assembly 210233 (2)
Packing Washer 210234 (2)
Back-up Washer 210286 (4)
Trunnion 210235
O-Ring B00823 (2)
O-Ring B01032
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .375 3-Way
180 Degree
15-75BV-RK $ 403.43
O-Ring B01117
Back-up Ring B01578
Ball Seat Assembly 210220 (2)
Packing Washer 210223 (2)
Back-up Washer 210288 (4)
Trunnion 210224
O-Ring B01584 (2)
O-Ring B01583
O-Ring B00809 (2)
Stem, Trunnion 210229
Washer, Bearing, Peek 210230

Trunnion Ball Valves .500 3-Way
180 Degree
10-81BV-RK $ 769.42
O-Ring B01101
Back-up Ring B01790
Ball Seat Assembly 211096 (2)
Packing Washer 211103 (2)
Back-up Washer 211105 (4)
Trunnion 211675
O-Ring B01893 (3)
O-Ring B01340 (2)
Washer, Bearing 211104
Stem, Trunnion H900 403587

Free-Floating Ball Valves
10/15/2016BV-RK $ 284.86
O-Ring B00821 (2)
Stem 208644
Top Packing Washer 207731-AM45
Packing B01392 (2)
Bottom Packing Washer 207732
Bearing Washer 208646
Ball 208647
Ball Seat 208648 (2)

Relief Valves / Factory Set
402633-03-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 208547

402633-10-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 208547

402633-20-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 208537

402633-30-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 208548

402633-45-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 210857

402633-60-RK $ 209.02
O-Ring B00821
Stem Seat 208554
Seal Ring 210858

Relief Valves /
Field Adjustable
HIP10RV-RK $ 135.85
O-Ring B01635
Nylon Seat 210368
Spring B01622
Washer 210365
O-Ring B01619
Packing 210451
Washer 210450

HIP20RV-RK $ 135.85
O-Ring B01635
Nylon Seat 210368
Spring B01622
Washer 210365
O-Ring B01619
Packing 210451
Washer 210450

MINI HIPPO Air Operated Valves

MH-AF2-RK $ 194.41
Stem 209426
Top Washer 200717
Packing B00195
Bottom Washer 200716

MH-AF4/6-RK $ 194.41
Stem 207624
Top Washer 200154
Packing B00181
Bottom Washer 200156

MH-HF4/6/9-RK $ 207.69
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155

HIPCO Air Operated Valves

HIPCO-AF4/6-RK $ 233.05
Stem 207624
Top Washer 200154
Packing B00181
Bottom Washer 200156
Diaphragm B01356

HIPCO-LF4/6-RK $ 256.96
Stem 208215
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732
Diaphragm B01356

HIPCO-LF4R/6R-RK $ 324.82
Stem 208215
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732
Diaphragm B01356
Lens Ring 208432

HIPCO-LF9-RK $ 197.06
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342
Diaphragm B01356

HIPCO-LF9R-RK $ 270.37
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342
Diaphragm B01356
Lens Ring 200897

HIPCO Air Operated Valves

HIPCO-30-RK $ 207.69
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155
Diaphragm B01356

HIPCO-30R-RK $ 276.89
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155
Diaphragm B01356
Lens Ring 200753

HIPCO-60-RK $ 233.05
Stem 209426
Top Washer 200717
Packing Set 214089
Bottom Washer 200716
Diaphragm B01356

HIPCO-60R-RK $ 303.57
Stem 209426
Top Washer 200717
Packing Set 214089
Bottom Washer 200716
Diaphragm B01356
Lens Ring 201238

HIPPO Air Operated Valves (MPO & HPO)

HIPPO-AF4/6-RK $ 197.06
Stem 212033
Top Washer 200154
Packing B00181
Bottom Washer 200156

HIPPO-LF4/6-RK $ 217.11
Stem 211536
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732

HIPPO-LF4R/6R-RK $ 287.51
Stem 211536
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732
Lens Ring 208432

HIPPO-LF9-RK $ 225.08
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342

HIPPO-LF9R-RK $ 233.05
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342
Lens Ring 200897

HIPPO Air Operated Valves (MPO & HPO)

HIPPO-30-RK $ 210.35
Stem 211527
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155

HIPPO-30R-RK $ 280.99
Stem 211527
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155
Lens Ring 200753

HIPPO-60-RK $ 331.58
Stem 211539
Top Washer 200717
Packing Set 214089
Bottom Washer 200716

HIPPO-60R-RK $ 402.10
Stem 211539
Top Washer 200717
Packing Set 214089
Bottom Washer 200716
Lens Ring 201238

NPT Hand Valves - 1/2", 3/4", & 1"

10-NFD-RK $ 177.50
Stem 203976
Top Washer 203524
Packing B00185 (2)
Bottom Washer 201764

10FNFF/H-RK $ 302.24
Lower Stem 208685
Top Washer 208756
Packing 208741 (2)
Bottom Washer 208757

NPT Hand Valves - New Style

10-NFA/B/C-RK $ 139.83
Lower Stem 213910
Top Washer 200154
Packing B00181
Bottom Washer 200156
Bottom Spacer 200155

15FNFA/B-RK $ 121.23
Lower Stem 213933
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732

15FNFC/D-RK $ 150.45

HIPCO NPT Air Operated Valves

HIPCO10NFA-RK $ 231.60
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Diaphragm B01356

HIPCO10NFB-RK $ 233.05
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Diaphragm B01356

HIPCO10NFC-RK $ 233.05
Stem 207622
Top Washer 200154
Packing B00181
Bottom Washer 200156
Diaphragm B01356

HIPCO15FNFA/B-RK $ 256.96
Stem 208215
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732
Diaphragm B01356

HIPCO15FNFC/D-RK $ 197.06
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342
Diaphragm B01356

HIPPO NPT Air Operated Valves (MPO & HPO)

HIPPO-15FNFA/B-RK $ 217.11
Stem 211536
Top Washer 207731
Packing B01392 (2)
Bottom Washer 207732

HIPPO-15FNFC/D-RK $ 159.76
Lower Stem 207467
Stem Pin 207983
Top Washer 207738
Packing Set 207341 (2)
Bottom Washer 207342

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A GRACO® Company

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International Price List

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