

Приводы высокого давления Morin HP

Технические характеристики



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Figure 1 Single Acting, Two Cylinders

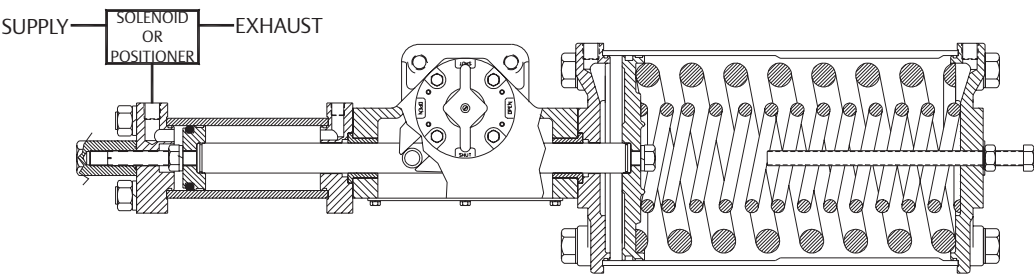


Figure 2 Double-Acting, Two Cylinders

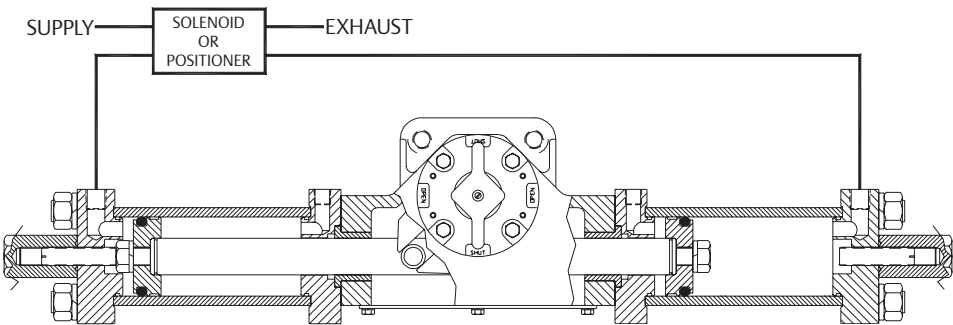
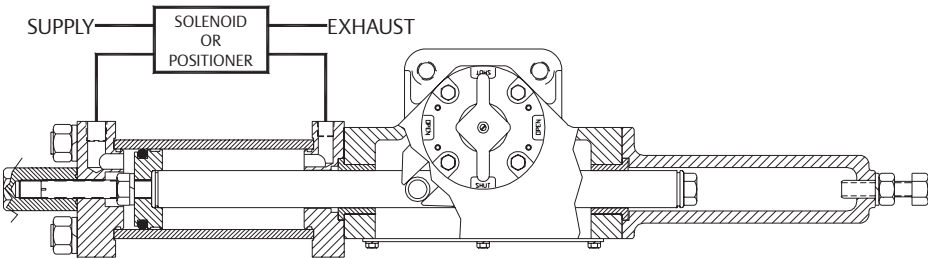
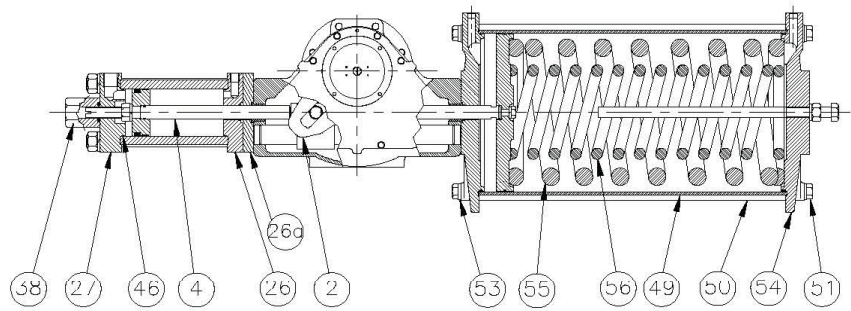


Figure 3 Double-Acting, Single Cylinder



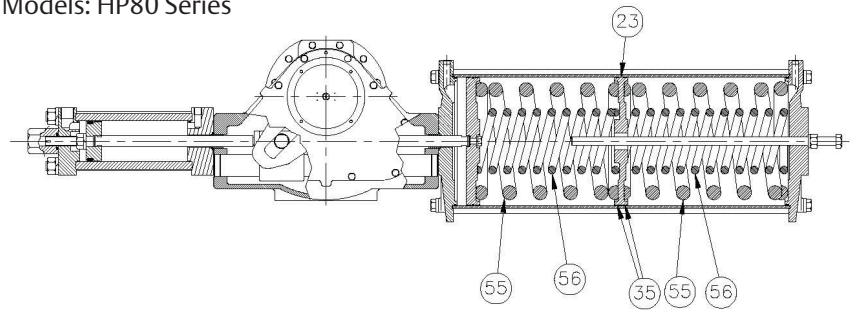
Single Acting Spring-Return Two Pistons

Models: HP65 Series



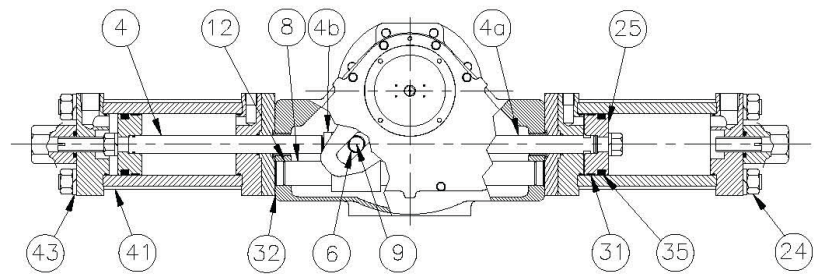
Single Acting Spring-Return Two Pistons

Models: HP80 Series



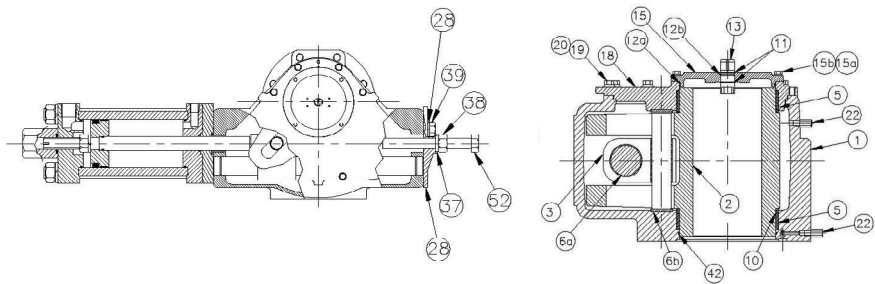
Double-Acting Air to Air Two Pistons

Models: HP65 Series and HP80 Series



Double-Acting Air to Air One Piston

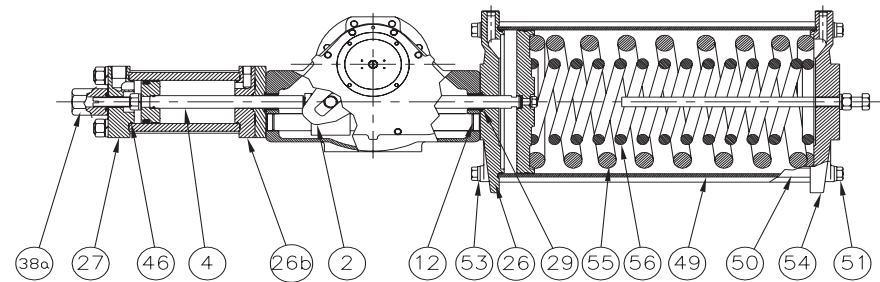
Models: HP65 Series



HP65 and HP80 Series
Yoke shown at mid-stroke
pointer omitted for clarity

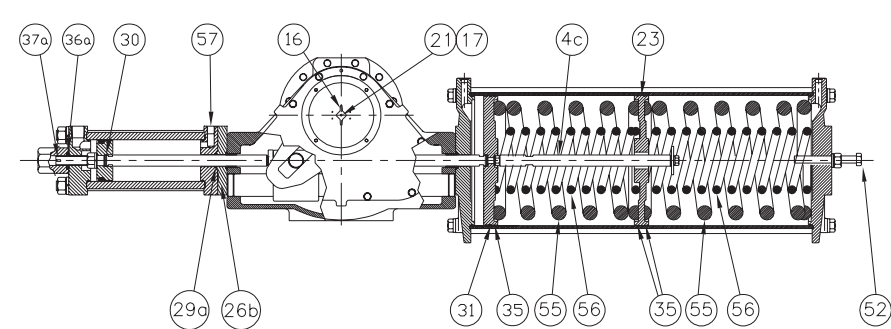
Single Acting Spring-Return Two Pistons

Models: HP65 Series



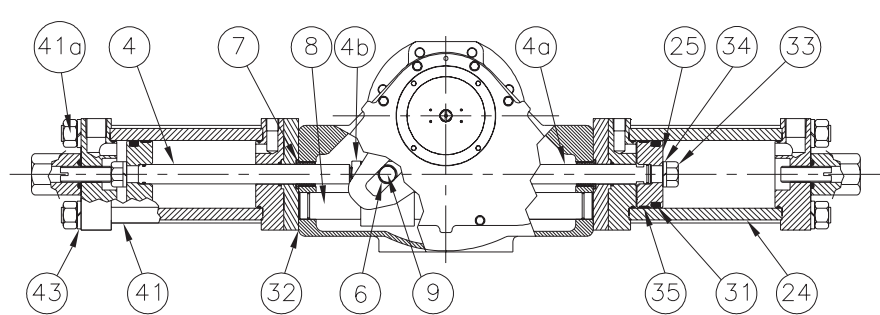
Single Acting Spring-Return Two Pistons

Models: HP80 Series



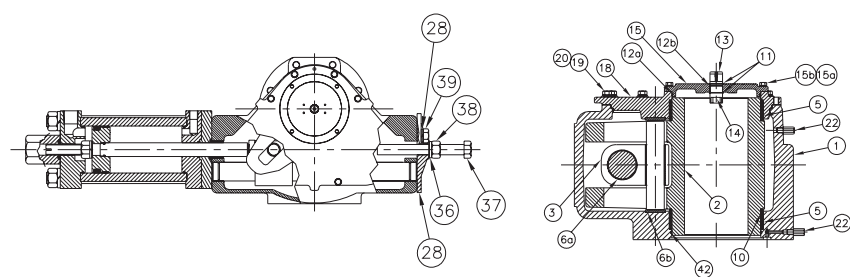
Double-Acting Air to Air Two Pistons

Models: HP65 Series and HP80 Series



Double-Acting Air to Air One Piston

Models: HP65 Series and HP80 Series



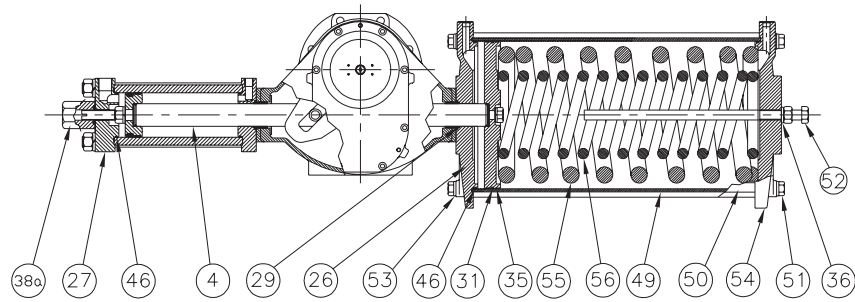
HP65 and HP80 Series
Yoke shown at mid-stroke
pointer omitted for clarity

NOTE:

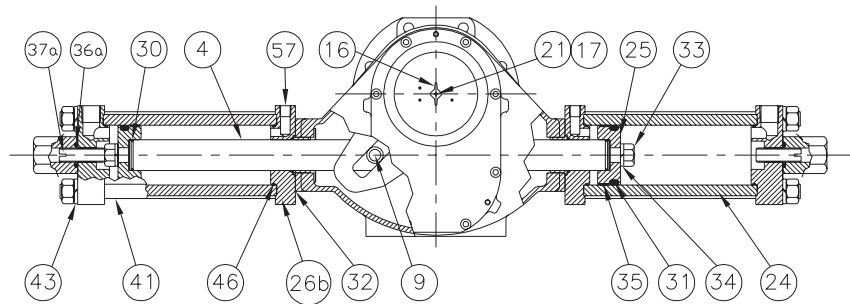
HP60 is a non-guide bar design only, offered in stainless steel.

Single Acting Spring-Return Two Pistons

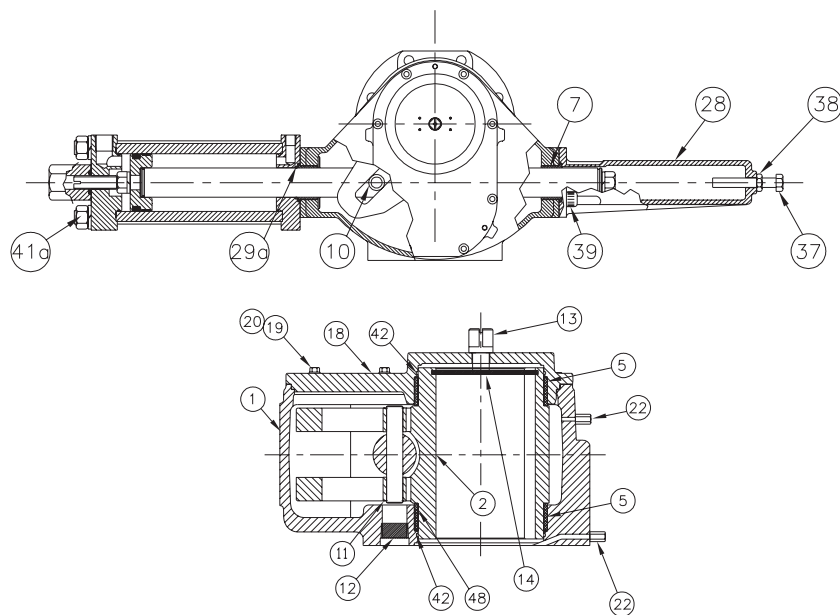
Models: HP60 Series

**Double-Acting Air to Air Two Pistons**

Models: HP60 Series

**Double-Acting Air to Air One Piston**

Models: HP60 Series

**HP65 Series**

Yoke shown at mid-stroke
pointer omitted for clarity

Table 1. Materials of Construction

No.	Item	S material		B material		C material
		HP15	HP25 and HP30	HP15	HP25 and HP30	HP25 and HP30
1	Housing	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
2	Yoke	17-4 PH	17-4 PH	17-4 PH	17-4 PH	17-4 PH
3	Output shaft	17-4 SS	17-4 SS	4140	4140	4140
4	Piston rod	316 SS	316 SS	CPO	CPO	CPO
5	Bushing - Output Shaft	Teflon	Teflon composite	Bronze	Teflon composite	Teflon composite
6a	Yoke Pin	18-8 SS	-	Steel	-	-
6b	Key - Yoke	-	17-4 PH	-	Steel	Steel
7	Bushing - Piston Rod	Teflon	Teflon	Bronze	Bronze	Bronze
8	Retaining Ring - Output Shaft	15-7 MO	15-7 MO	Steel	Steel	Steel
9	Thrust Pin	440C SS	440C SS	440C SS	440C SS	440C SS
10	Roller Bearing	440C SS	440C SS	440C SS	440C SS	440C SS
11	Retaining Ring - Pin	15-7 MO	15-7 MO	STEEL	STEEL	Steel
12	Seal, Thrust Plate	-	Buna-n	-	Buna-n	Buna-n
12a	Set Screw	18-8 SS	-	18-8 SS	-	-
12b	Retaining Ring - Lower Bearing	-	18-8 SS	-	Steel	Steel
13	Pointer Adaptor	-	Nylon	-	Nylon	Nylon
13a	Position Indicator	304 SS	-	Ductile iron	-	-
13b	Thrust Plate	-	316 SS	-	Ductile iron	Ductile iron
13c	Gasket, Thrust Plate	-	Fiber	-	Fiber	Fiber
14	Hex Head Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
15	Lock Washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
16	Pointer	Soft PVC	Soft PVC	Soft PVC	Soft PVC	Soft PVC
17	Round Head Screw	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
18	Cover- Housing	316 SS	316 SS	STEEL	Steel	Steel
19	Hex Head Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
20	Lock Washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
21	Pointer washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
22	Thrust Washer	-	18-8 SS	-	Steel	Steel
23	Gasket - Cover	Fiber	Fiber	Fiber	Fiber	Fiber
24	Cylinder	316 SS	316 SS	316 SS	316 SS	Steel /xylan
25	Piston	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
26	Adaptor	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
26b	HP Adaptor	316 SS	316 SS	Steel	Steel	Steel
27	HP End cap	316 SS	316 SS	Steel	Steel	Steel
28	Rod Cover	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
29	Seal -Piston Rod	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n

No.	Item	S material		B material		C material
		HP15	HP25 and HP30	HP15	HP25 and HP30	HP25 and HP30
29a	U cup Seal - Piston Rod	Urethane	Urethane	Urethane	Urethane	Urethane
30	Seal -Piston Bolt	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n
31	Seal- Piston	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n
32	Gasket - Housing	Fiber	Fiber	Fiber	Fiber	Fiber
33	Piston Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
34	Lock Washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
35	Bearing - Piston	Teflon	Teflon	Teflon	Teflon	Teflon
36	Thread Seal	SS/EPDM	SS/EPDM	Steel/EPDM	Steel/EPDM	Steel/EPDM
36a	Cap Nut Seal	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n
37	Travel Stop Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
37a	HP Adjustment Screw	304 SS	304 SS	Ductile iron	Ductile iron	Ductile iron
38	Jam Nut	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
38a	Cap Nut	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
39	Socket Head Cap Screw	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
41	Tie Rod	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
41a	Nut - Tie Rod	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
42	Seal - Output Shaft	-	-	Buna-n	-	-
43	Lock Washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
44	Hex Head Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
44a	Socket Head Cap Screw	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
45	Stato-seal	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n
46	Cylinder Gasket or O-ring	Buna-n	Buna-n	Buna-n	Buna-n	Buna-n
47	Label - Nameplate	Mylar	Mylar	Mylar	Mylar	Mylar
48	Seal - Output Shaft Bushing	-	-	Buna-n	-	-
49	Cylinder - Spring Side	316 SS	316 SS	316SS	316 SS	Steel /xylan
50	Tie Rod - Spring Side	316 SS	316 SS	316 SS	Steel	Steel
51	Hex Head Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
52	Travel Stop Bolt	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
53	Flat Washer	18-8 SS	18-8 SS	18-8 SS	Steel	Steel
54	End cap - Spring Side	316 SS	316 SS	Ductile iron	Ductile iron	Ductile iron
55	Spring - Outer	Steel	Steel	Steel	Steel	Steel
56	Spring - Inner	Steel	Steel	Steel	Steel	Steel
57	Breather	18-8 SS	18-8 SS	Steel	Steel	Steel
58	Label - Spring	Lexan	Lexan	Lexan	Lexan	Lexan

Table 2. Materials of Construction

No.	Item	S material HP60
1	Housing	316 SS
2	Yoke	17-4 PH
4	Piston rod	316 SS
5	Bearing - Yoke	Teflon composite
7	Bushing - Piston Rod	Bronze
9	Thrust Pin	440C SS
10	Slide Block	BRONZE
11	Retaining Ring - Pin	15-7 MO
12	Plug - Thrust Pin Access	18-8 SS
13	Pointer Adaptor	Nylon
14	Drive Bar	Steel
16	Pointer	Soft PVC
17	Round Head Screw	18-8 SS
18	Cover - Housing	316 SS
19	Hex Head Bolt- Cover	18-8 SS
20	Lock Washer - Cover	18-8 SS
21	Pointer Washer	18-8 SS
22	Vent Valve	Brass
24	Cylinder	316 SS
25	Piston	316 SS
26	Adaptor	316 SS
26b	HP Adaptor	316 SS
27	End cap	316 SS
28	Rod Cover	316 SS
29	Seal - Piston Rod	Buna-n
29a	U cup Seal - Piston Rod	Urethane
30	Seal - Piston Bolt	Buna-n
31	Seal - Piston	Buna-n
32	Gasket - Housing	Fiber
33	Hex Head Bolt - Piston	18-8 SS
34	Lock Washer - Piston	18-8 SS
35	Bearing - Piston	Teflon
36	Thread Seal	SS/EPDM
36a	Cap Nut Seal	Buna-n
37	Travel Stop Bolt	18-8 SS
37a	HP Adjustment Screw	
38	Jam Nut	18-8 SS
38a	Cap Nut	
39	Socket Head Cap Screw	18-8 SS
41	Tie Rod	18-8 SS
41a	Nut - Tie Rod	18-8 SS
42	Seal - Yoke	Buna-n
43	Lock Washer	18-8 SS
44	Hex Head Bolt	18-8 SS
44a	Socket Head Cap Screw	18-8 SS
45	Stato-seal	Buna-n
46	Cylinder O-ring	Buna-n
47	Label - Nameplate	Mylar
48	Seal - Output Shaft Bushing	Buna-n
49	Cylinder - Spring Side	316 SS
50	Tie Rod - Spring Side	316 SS
51	Hex Head Bolt	18-8 SS
52	Travel Stop Bolt	18-8 SS
53	Flat Washer	18-8 SS
54	End cap - Spring Side	316 SS
55	Spring - Outer	Steel
56	Spring - Inner	Steel
57	Breather	18-8 SS
58	Label - Spring	Lexan

Table 3. Materials of Construction

No.	Item	B material HP65 and HP80	C material HP65 and HP80
1	Housing	Ductile iron	Ductile iron
2	Yoke	Ductile iron	Ductile iron
3	Guide Block	Ductile iron	Ductile iron
4	Piston Rod - Left	CPO	CPO
4a	Piston Rod - Right	CPO	CPO
4b	Jam Nut - Piston rod	Steel	Steel
4c	Piston Rod - Extension	CPO	CPO
5	Bearing - Yoke	Teflon composite	Teflon composite
6	Bearing - Thrust Pin	Steel	Steel
6a	Bearing - Guide Bar	Steel	Steel
6b	Thrust Bearing - Thrust Pin	Nylon	Nylon
7	Bushing - Piston Rod	Bronze	Bronze
8	Guide Bar	CPO	CPO
9	Thrust Pin	440C SS	440C SS
10	Seal, Bearing	Buna-n	Buna-n
11	Retaining Ring - Accessory Drive	Steel	Steel
12	Seal - Guide Bar	Buna-n	Buna-n
12a	Seal, Cap	Buna-n	Buna-n
12b	Seal, Accessory Drive	Buna-n	Buna-n
13	Accessory Drive	Steel	Steel
14	Drive Bar	Steel	Steel
15	Cap	Ductile iron	Ductile iron
15a	Washer, Cap	Steel	Steel
15b	Screw, Cap	Steel	Steel
16	Pointer	Soft PVC	Soft PVC
17	Round Head Screw	18-8 SS	Steel
18	Cover - Housing	Ductile iron	Ductile iron
19	Hex Head Bolt- Cover	Steel	Steel
20	Lock Washer - Cover	Steel	Steel
21	Pointer Washer	Steel	Steel
22	Vent Valve	Brass	Brass
23	Cup, Spring	Ductile iron	Ductile iron
24	Cylinder	316 SS	Steel/xylan
25	Piston	Ductile iron	Ductile iron
26	Adaptor	Ductile iron	Ductile iron
26a	Spacer Plate (not used with HP80)	Ductile iron	Ductile iron
26b	HP Adaptor	Ductile iron	Ductile iron
27	End cap	Ductile iron	Ductile iron
28	Rod Cover	Ductile iron	Ductile iron
29	Seal - Piston Rod	Buna-n	Buna-n

No.	Item	B material HP65 and HP80	C material HP65 and HP80
29a	U cup Seal - Piston Rod	Urethane	Urethane
30	Seal - Piston Bolt	Buna-n	Buna-n
31	Seal - Piston	Buna-n	Buna-n
32	Gasket - Housing	Fiber	Fiber
33	Hex Head Bolt - Piston	Steel	Steel
34	Lock Washer - Piston	Steel	Steel
35	Bearing - Piston	Teflon	Teflon
36	Thread Seal	Steel/EPDM	Steel/EPDM
36a	Cap Nut Seal	Buna-n	Buna-n
37	Travel Stop Bolt	Steel	Steel
37a	HP Adjustment Screw	Ductile iron	Ductile iron
38	Jam Nut	Steel	Steel
38a	Cap Nut	Ductile iron	Ductile iron
39	Socket Head Cap Screw	Steel	Steel
41	Tie Rod	Steel	Steel
41a	Nut - Tie Rod	Steel	Steel
42	Seal - Yoke	Buna-n	Buna-n
43	Lock Washer	Steel	Steel
44	Hex Head Bolt	Steel	Steel
44a	Socket Head Cap Screw	Steel	Steel
45	Stato-seal	Buna-n	Buna-n
46	Cylinder O-ring	Buna-n	Buna-n
47	Label - Nameplate	Mylar	Mylar
49	Cylinder - Spring Side	316 SS	Steel/xylan
50	Tie Rod - Spring Side	Steel	Steel
51	Hex Head Bolt	Steel	Steel
52	Travel Stop Bolt	Steel	Steel
53	Flat Washer	Steel	Steel
54	End cap - Spring Side	Ductile iron	Ductile iron
55	Spring - Outer	Steel	Steel
56	Spring - Inner	Steel	Steel
57	Breather	Steel	Steel
58	Label - Spring	Lexan	Lexan

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93