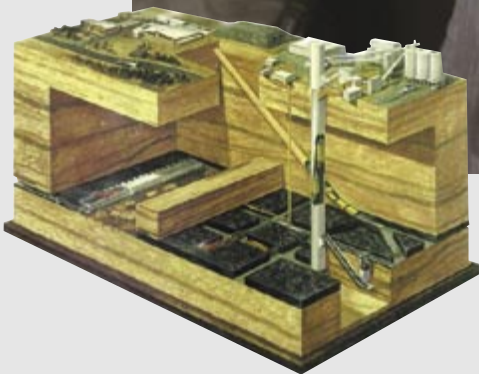




COALMASTER[®]

Underground Mining Products

Bulletin 4480-B21/UK



COALMASTER®

Underground Mining Programme

Higher productivity, increased safety and reliability, these are the demands of the modern mining market place. Faster, safer operations are required without hydraulic system problems. Performance and dependability are essential to meet today's standards and tomorrow's technology.

The Parker underground mining programme has been designed and developed around the specific needs and requirements of deep underground mining. A close working relationship with mining engineers has helped Parker to understand the operations of modern mining and provide products to satisfy this demanding Industry.





Product Range

- COALMASTER® Mining Hose
- SteckO® Adaptors
- COALMASTER® Ball Valves
- COALMASTER® Filters
- COALMASTER® Steel Pipelines
- SteckO® Rotary Couplings
- COALMASTER® Manifolds
- COALMASTER® Dust Suppression Valves



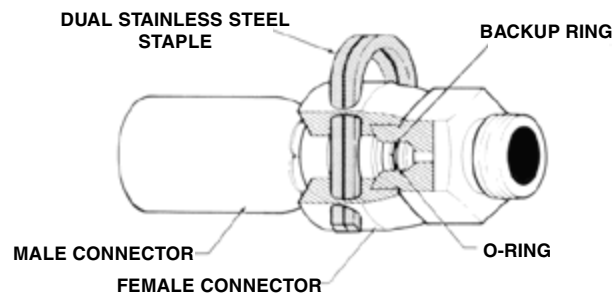
COALMASTER®

Underground Mining Products

The Parker COALMASTER® programme provides total system integrity and compatibility. The COALMASTER® concept is to provide a complete hydraulic package that can connect and support underground mining equipment. The product range includes: Mining hose, Stecko adaptors, Ball valves, Filtration, Steel Pipelines, Stecko Rotary Couplings, Manifolds and Dust Suppression valves.

All COALMASTER® products are engineered to provide long service life in extremely hostile conditions. Carefully selected materials and special surface protection processes are used to ensure product reliability in a highly corrosive environment.

All Parker Mining products have proven underground reliability together with International approvals.





COALMASTER® Mining Hose

COALMASTER® mining hose with two wire braid, four and six wire spiral constructions is the most comprehensive range available to the mining industry. All hoses have been specially designed to meet the requirements of a hazardous and harsh environment. Every hose assembly is built and thoroughly tested to ensure they meet or exceed recognized International Mining standards.

Stecko® Adaptors

The original Stecko adaptor was the first staple connector used in the mining industry. This unique design permits quick and easy connections in confined spaces which are essential to maintain and support underground equipment.

The Super Stecko adaptor was developed to satisfy high flow, high pressure system demands, necessary to achieve faster more cost effective mining production.

The recently designed Stecko Slimlok and Super Slimlok range with the sunken staple concept now provides a snag free, cost effective slimline adaptor programme.



COALMASTER® Ball Valves

COALMASTER® Ball valves with extensive underground experience meet high performance requirements, whilst providing trouble-free service. Available in 2-way, 3-way and 4-way designs utilizing Stecko or threaded connections. This comprehensive range satisfies a variety of mining system control functions.

COALMASTER® Ball valves are manufactured in various materials to suit different mediums and environmental conditions.

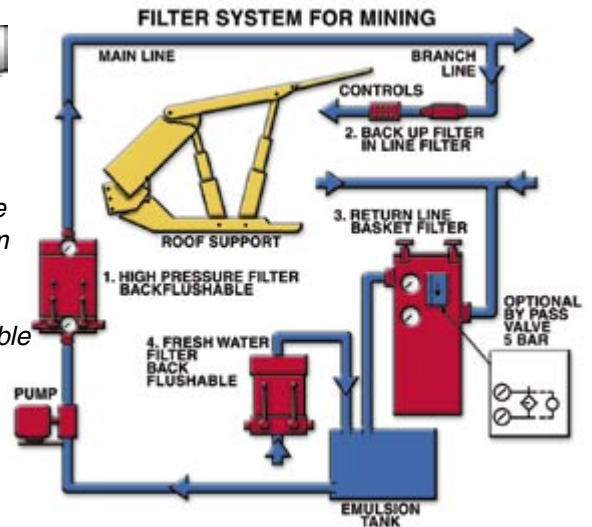


COALMASTER® Filters



Dirt and contamination is a major problem to sensitive hydraulic circuits in modern mining equipment. The COALMASTER® filter range which includes high pressure, in-line, return line and fresh water filters, provide complete system protection.

A main feature of COALMASTER® filter programme is the highly successful backflushable design which offers both operational efficiency and cost savings.



COALMASTER® Steel Pipelines



COALMASTER® steel pipelines are used in modern longwall mining to provide fluid transfer from remote pumping stations to the operating coal face. These pipelines can be up to 5 kilometers long and satisfy a high flow, low pressure drop requirement essential to maintain consistent production.

Stecko® Rotary Couplings



Stecko rotary couplings are used on high or low pressure systems where hose rotation is a problem.

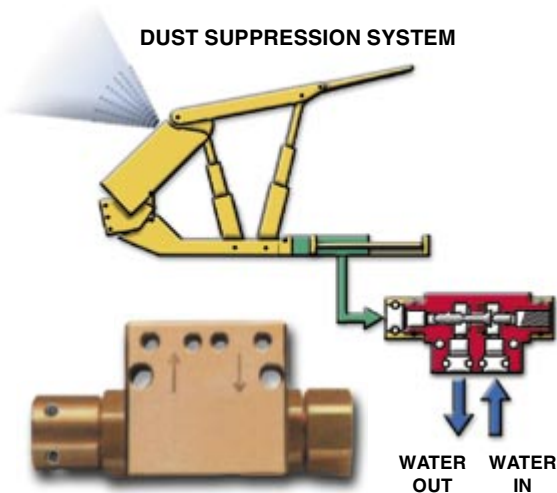
The Stecko rotary couplings provides the complete solution to hose bunching, kinking and torsional damage, reducing maintenance whilst increasing hose life .



COALMASTER® Manifolds



COALMASTER® modular manifold blocks can be assembled to match any system configuration or requirement. The versatile design affords easy system integration with all COALMASTER® products.



COALMASTER® Dust Suppression Valves



Safe underground working environments are essential to maintain production standards and efficiency. The COALMASTER® dust suppression valve offers ease of installation and its water spray feature ensures low dust conditions.

COALMASTER® spray nozzles are also available in both fixed and adjustable designs. All valve and nozzle materials used provide high corrosive resistance.



International Mining Approvals

**The Mine Safety and Health Administration
National Coal Board**

**Landesoberbergamt
Australian Mining Standards
International Organization for Standardization
Deutsches Institut für Normung e.V.**

- MSHA
- NCB 174
NCB 638
- LOBA
- AS1180
- ISO
- DIN

Fluid Connectors Europe Sales Offices

Parker Hannifin GmbH
A - 2700 Wiener Neustadt
Tel: +43 (0) (26 22) 23 501
Fax: +43 (0) (26 22) 66 212

Parker Hannifin Corporation
AZPAR
AZ - 370 000 Baku
Tel/Fax: +994 129 83 966

Parker Hannifin S.A.-N.V.
B - 1400 Nivelles
Tel: +32 (0) 67 280 900
Fax: +32 (0) 67 280 999

Parker Hannifin s.r.o.
CZ - 184 00 Prague 8
Tel: +420 283 085 224
Fax: +420 283 085 360

Parker Hannifin GmbH
Fluid Connectors Group
D - 33659 Bielefeld
Tel: +49 (0) (521) 4048-0
Fax: +49 (0) (521) 4048-4280

Parker Hannifin Danmark A/S
DK - 2750 Ballerup
Tel: +45 43 56 04 00
Fax: +45 43 73 31 07

Parker Hannifin España S.A
E - 28850 Torrejón de Ardoz
(Madrid)
Tel: +34 91 675 73 00
Fax: +34 91 675 77 11

Parker Hannifin France SAS
F - 74130 Contamine-sur-Arve
Tel: +33 (0) 4 50 25 80 25
Fax: +33 (0) 4 50 97 86 60

Parker Hannifin Oy
FIN - 01510 Vantaa
Tel: +358 (0) 9 476 731
Fax: +358 (0) 9 476 732 00

Parker Hannifin plc
GB - Derby DE24 8JA
Tel: +44 (0) 1332 36 56 31
Fax: +44 (0) 1332 36 80 38

Parker Hannifin Corporation
GR - 171 21 Athens
Tel: +30 (210) 933-6450
Fax: +30 (210) 933-6451

Parker Hannifin Corporation
HU - 1149 Budapest
Tel: +36 (1) 220-4155
Fax: +36 (1) 422-1525

Parker Hannifin S.p.A.
I - 20094 Corsico (MI)
Tel: +39 02 451921
Fax: +39 02 4479340

Parker Sales Ireland Ltd
IE - Blackrock, Co. Dublin
Tel: +353 (0) 1 293 9999
Fax: +353 (0) 1 293 9900

Parker Hannifin Corporation
Gateway Ventures Ca Ltd.
KZ - 480100 Almaty
Tel: +7 327 2 543 081
Fax: +7 327 2 541 100

Parker Hannifin A/S
N - 1402 Ski
Tel: +47 64 91 10 00
Fax: +47 64 91 10 90

Parker Hannifin B.V.
NL - 7570 AT Oldenzaal
Tel: +31 (0) 541 585000
Fax: +31 (0) 541 585459

Parker Hannifin Sp.z.o.o.
PL - 02-445 Warszawa
Tel: +48 (0) (22) 863 49 42
Fax: +48 (0) (22) 863 49 44

Parker Hannifin Portugal Lda
PT - 4450-625 Leça da Palmeira
Tel: +351 22 9997360
Fax: +351 22 9961527

Parker Hannifin Corporation
Hidro Consulting Impex Srl
RO - 00001 Bucharest
Tel: +40 (21) 252-1382
Fax: +40 (21) 252-3381

Parker Hannifin Corporation
RU - 123001 Moscow
Tel: +7 (095) 234 0054
Fax: +7 (095) 234 0528

Parker Hannifin Corporation
RU - 693000 Yuzhno-Sakhalinsk
Tel/Fax: + 7 4242 727 242

Parker Hannifin AB
S - 16308 Spånga-Stockholm
Tel: +46 (0) 8 5979 5000
Fax: +46 (0) 8 5979 5120

Parker Hannifin Corporation
SI - 8000 Novo Mesto
Tel: +386 (7) 337-6650
Fax: +386 (7) 337-6651

Parker Hannifin Corporation
TR - 34169 Merter/Istanbul
Tel: +90 212 482 91 06/07
Fax: +90 212 482 91 10

Parker Hannifin Corporation
UA - 01004 Kiev
Tel: +380 (0) (44) 2207 432
Fax: +380 (0) (44) 2206 534

Parker Hannifin Africa
ZA - Kempton Park
Tel: +27 11 961-0700
Fax: +27 11 392-7213

Internet: <http://www.parker.com/europe>

For further information on other Parker Products, call the European Product Information Centre free of charge on 00800 27 27 5374.



Parker Hannifin plc
Mining Products Business Unit
Belfont Industrial Estate
Mucklow Hill
Halesowen
West Midlands B62 8DR
Tel: +44 (0) 121 504 3400
Fax: +44 (0) 121 550 4274

Bulletin 4480-B21/UK
© 2002 Parker Hannifin/ 112
punctum/PlantijnCasparie 07/2004