

**INTRODUCTION**

Warning/Safety ..... 2  
 Hose Environmental/Physical Properties Resistance  
   Reference Symbols ..... 2  
 HBD/Thermoid, Inc. Map ..... 3

**GENERAL INFORMATION**

Commitment to Excellence ..... 6  
 General Hose Information ..... 7  
 The Thermoid® Brand Advantage ..... 7  
 RMA Oil Resistance Data ..... 7  
 Minimum Hose Bend Radius Data (MBR) ..... 7

Factors Affecting Hose Service Life ..... 8-9  
 Steam Hose Warning ..... 8  
 Chemical Hose Warnings ..... 9 & 128  
 Static Electricity Warning ..... 9  
 Care, Maintenance and Storage ..... 10  
 Hose Testing ..... 11  
 Hose and Coupling Selection Guide ..... 12  
**TECHNICAL REFERENCE**  
 Welding Hose Technical Information ..... 117  
 Bulk Transfer/Transporter® Hose Product  
   Reference ..... 118

Chemical Resistance Chart ..... 119  
 Chemical Warning/Caution ..... 128  
**Industrial Hose Conversion Factors**  
 Decimal & Metric Equivalents ..... 129  
 Conversion Factors ..... 130  
 Temperature Conversion ..... 133

**TERMS & CONDITIONS**

Terms & Conditions of Sale ..... 134  
**HBD INDUSTRIES, INC.**  
 HBD Industries, Inc. Companies ..... 135

**ALPHABETICAL – By Hose Title**

**A**

AIR BRAKE, TYPE A - SAE J1402 &  
   DOT FMVSS 106 ..... 28  
 AIRFLEX™ ..... 17  
 AIR POWER™ JACKHAMMER ..... 22  
 ALARM® BOOSTER - Thermocure ..... 112  
 ATLAS™ ACID DISCHARGE ..... 45  
 ATLAS™ ACID SUCTION & DISCHARGE ..... 45

**B**

BF-10 PVC WATER DISCHARGE - BLUE ..... 103  
 BLACK HEAVY-DUTY CONTRACTORS  
   WATER - Coupled ..... 98  
 BLACK HEAVY-DUTY WATER - Coupled ..... 98  
 BLACK MAX® M.R.O. .... 20  
 BLACK MUNICIPAL WATER - Coupled ..... 99  
 BLACK RACER™ OS&D ..... 49  
 BLACK STANDARD HEATER & BLACK OEM  
   HEATER SAE 20R3, CLASS D2 TYPE ..... 28  
 BLAST-FLEX™ SAND BLAST ..... 95  
 BOTTOM LOADING ..... 73  
 BURSTPROOF™ OIL RESISTANT STEAM -  
   Thermocure ..... 96  
 BURSTPROOF™ REGULAR STEAM -  
   Thermocure ..... 96

**C**

CASCADE PAPER MILL ..... 102  
 CHEMICAL & SOLVENT - UHMW  
   POLYETHYLENE LINING (Smooth Bore) ..... 49  
 COBRA™ FUEL OIL DELIVERY ..... 73  
 COMMANDER® ACID DISCHARGE ..... 46  
 COMMANDER® ACID SUCTION &  
   DISCHARGE ..... 46  
 CONVERTAPIPE® - Black Cover ..... 69

**D**

DARI-PREEN CREAMERY ..... 111  
 DREDGING SLEEVES ..... 61  
 DURA-RED™ ..... 18

**E**

ELEPHANT TRUNK ..... 90  
 EXCALIBUR™ MULTIPURPOSE ..... 25

**F**

FIRE EXTINGUISHER - UL92 ..... 112  
 FISH SUCTION ..... 55  
 FLEX-LOC™ PUSH-ON ..... 23  
 FLEX-LOC™ 300 PUSH-ON ..... 24  
 FLEXLOCK™ CONNECTORS ..... 71  
 FLEXLOCK™ ENDS (Full Face Flanges) ..... 71  
 FLEXSEAL™ CONNECTORS ..... 72  
 FLEXSEAL™ ENDS (Beaded Ends) ..... 72  
 FLIGHTMASTER® AIRCRAFT REFUELING ..... 91  
 FLIGHTMASTER® JAC RISOR ..... 92  
 FUEL LINE, VAPOR EMISSION & CRANKCASE  
   VENTILATION - Similar to SAE 30R7 ..... 29  
 FUEL TRANSFER 150 ..... 74  
 FURNACE DOOR (Wire Braid) ..... 92

**G**

GENERAL PURPOSE COOLANT & DISCHARGE  
   100 & 100A ..... 32  
 GLACIER™ MULTIPURPOSE ..... 26  
 GOLDENAIR® ..... 20  
 GREEN GARDEN - Coupled ..... 99  
 GREEN GP/OXYGEN ..... 21

**H**

HEAVY DUTY COOLANT & DISCHARGE  
   101 & 101B ..... 33  
 HERCULES® 500 MULTIPURPOSE ..... 25  
 HERCULES® 1000 MULTIPURPOSE ..... 26  
 HIGHFLEX GRADE C ROTARY VIBRATOR,  
   DRILLING & DECOKER ..... 94  
 HIGHFLEX GRADE D ROTARY DRILLING ..... 93  
 HI-VAC™ CO-AX® ..... 82  
 HI-VAC™ S CO-AX® ..... 82  
 HI-VAC™ WHIP ..... 83  
 HY-FLEX™ 200/275/300 DOCK -  
   NYLON/UHMWPE TUBE (Rough Bore) ..... 50

**K**

KOROBRAID® TUBING ..... 55  
 KOROKLEAR® TUBING ..... 56

**L**

LP GAS/PROPANE TANKMASTER ..... 88

**M**

MAINLINER® ..... 17  
 MAXECON/GP ..... 18  
 MAXECON™ PLUS ..... 19

**N**

NYLAIR 44 WATER DISCHARGE ..... 101

**P**

PAPER MACHINE SUCTION BOX ..... 107  
 PAPER MILL - TYPE 1788 - Gray Cover ..... 101  
 PILE DRIVER STEAM ..... 97  
 POLAR-FLEX/CGA TYPE 1  
   BUTANE-PROPANE-Thermocure ..... 88  
 PREMIER FARM TANK ..... 75  
 PUMPFLEX® I - Softwall ..... 76  
 PUMPFLEX® II - Hardwall ..... 77  
 PUMPFLEX® II - Jumper ..... 78  
 PUMPFLEX® MARINA - Softwall ..... 78  
 PVC WATER DISCHARGE STANDARD DUTY  
   BLUE ..... 104

**R**

RADIAL AIRE ..... 21  
 RADIAL FLEX® AIR DUCTING - BLUE ..... 61  
 RADIAL FLEX® CLEAR FOOD  
   PROCESSING ..... 57  
 RADIAL FLEX® CONTRACTORS ..... 108  
 RADIAL FLEX® EXTRA HEAVY DUTY  
   GREEN ..... 109  
 RADIAL FLEX® HEAVY DUTY YELLOW ..... 110  
 RADIAL FLEX® STANDARD DUTY CLEAR ..... 108  
 RADIAL FLEX® STANDARD DUTY CLEAR  
   CORRUGATED ..... 109  
 RADIAL FLEX® STANDARD DUTY  
   CORRUGATED GREEN ..... 110  
 RADIAL FLEX® STANDARD DUTY GREEN ..... 107  
 RED AIR TOOL COUPLED ..... 22

**S**

SAFETYFLEX® ..... 51  
 SAFETYFLEX WATER JETTING ..... 51  
 SAND & CEMENT DISCHARGE-Black Cover ..... 63  
 SAND SUCTION ..... 62  
 SANI-WHITE™ WASHDOWN ..... 111  
 SINGLE LINE CORRUGATED WELDING,  
   GRADE R, TYPE S ..... 114  
 SINGLE LINE CORRUGATED WELDING,  
   GRADE T ..... 116  
 SLIM HOLE ROTARY DRILLING ..... 94  
 SUBMARINE 225 PSI (Smooth Bore) ..... 52  
 SUPERLITE® HI-FLO™ CO-AX® ..... 79  
 SUPERLITE® HI-FLO™ WHIP ..... 80  
 SUPERLITE® Q CO-AX® & SUPERLITE® QV  
   (Venturi) ..... 80  
 SUPERLITE® Q WHIP ..... 81  
 SUPERLITE® V (Venturi) ..... 79

**T**

TANKMASTER® 200/225 - FKM LINING  
   (Smooth Bore) ..... 54  
 TANKMASTER® HOT ASPHALT  
   (Smooth Bore) ..... 52  
 TANKMASTER® K200 OIL SUCTION &  
   DISCHARGE 200 PSI (Smooth Bore) ..... 53  
 TANKMASTER® NBR LINING 200  
   (Smooth Bore) ..... 54  
 TANKMASTER® OIL DISCHARGE  
   (Smooth Bore) ..... 53  
 THERMOID MUD PUMP SUCTION ..... 93  
 TRANSPORTER® BLACK TANK TRUCK ..... 85  
 TRANSPORTER® CHEMICAL B ..... 47  
 TRANSPORTER® CHEMICAL H ..... 47  
 TRANSPORTER® CHEMICAL V ..... 48  
 TRANSPORTER® EBONITE™ CORRUGATED  
   TANK TRUCK ..... 83

TRANSPORTER® FOOD DISCHARGE ..... 57  
 TRANSPORTER® FOOD SUCTION -  
   Gray Smooth Cover ..... 58  
 TRANSPORTER® FOOD SUCTION -  
   White Corrugated Cover ..... 58  
 TRANSPORTER® GRAY SHADOW  
   FOOD SUCTION ..... 59  
 TRANSPORTER® HOT AIR BLOWER ..... 63  
 TRANSPORTER® HOT TAR & ASPHALT ..... 90  
 TRANSPORTER® L.W. CORRUGATED  
   TANK TRUCK ..... 84  
 TRANSPORTER® MATERIAL DISCHARGE ..... 64  
 TRANSPORTER® MATERIAL SUCTION ..... 64  
 TRANSPORTER® MULTI-CHEM® ..... 48  
 TRANSPORTER® OIL FIELD VACUUM ..... 65  
 TRANSPORTER® PLASTER & CONCRETE ..... 65  
 TRANSPORTER® RED TANK TRUCK ..... 85  
 TRANSPORTER® TYPE 120 DRY CEMENT ..... 66  
 TRANSPORTER® ULTRA-CHEM™ ..... 44  
 TRANSPORTER® VAPOR RECOVERY ..... 87  
 TRANSPORTER® WATER DISCHARGE ..... 104  
 TRANSPORTER® WATER SUCTION &  
   DISCHARGE ..... 106  
 TRANSPORTER® X.L.W. CORRUGATED  
   TANK TRUCK ..... 87  
 TULINE WELDING, GRADE R ..... 113  
 TULINE WELDING, GRADE R -  
   Cut & Coupled (B&B) ..... 114  
 TULINE WELDING, GRADE T ..... 115  
 TULINE WELDING, GRADE T -  
   Cut & Coupled (B&B) ..... 116  
 TYPE 65 BUTANE-PROPANE ..... 89  
 TYPE 75 BUTANE-PROPANE - Thermocure ..... 89  
 TYPE 95 FOOD - Gray Cover ..... 59  
 TYPE 96 FOOD - Gray Cover ..... 60  
 TYPE 101 MATERIAL HANDLING -  
   Black Cover ..... 66  
 TYPE 102 MATERIAL HANDLING ..... 67  
 TYPE 103 EXHAUST - Black Cover ..... 67  
 TYPE 105 COLLECTOR - Black Cover ..... 68  
 TYPE 120 FOOD - Gray Cover ..... 60  
 TYPE 924 PETROLEUM TRANSFER ..... 86  
 TYPE 2458 MARINE - Black Cover ..... 41

**V**

VALUFLEX®/GS - BLACK ..... 15  
 VALUFLEX®/GS - GREEN, YELLOW, BLUE ..... 16  
 VALUFLEX®/GS - RED ..... 14  
 VERSICON® ..... 19

**W**

WASHING MACHINE DRAIN ..... 100  
 WASHING MACHINE INLET ..... 100  
 WD-150 WATER DISCHARGE ..... 105  
 WRAPPED SAND BLAST ..... 95

**Z**

ZEPHYR™ AIR ..... 27  
 1158 SOFTWALL AROMATIC FUEL SAE 30R2  
   TYPE 2 ..... 30  
 2012 STANDARD WALL 3/16" COOLANT  
   SAE 20R1 ..... 34  
 2015 HEAVY WALL 1/4" COOLANT  
   SAE 20R1 ..... 35  
 2400 WET EXHAUST SAE J2006 ..... 39  
 2428 MARINER PREMIUM WET EXHAUST  
   SAE J2006 ..... 40  
 3003 SILICONE COOLANT STANDARD  
   WALL 3/16" ..... 36  
 3004 SILICONE COOLANT HEAVY WALL 1/4" ..... 37  
 3005 SILICONE COOLANT HEATER  
   SAE 20R3 CLASS A ..... 38  
 3009 SILCOFLEX™ SILICONE COOLANT  
   HARD WALL ..... 38  
 7318 SOFT WALL FUEL FILL SAE 30R7 ..... 31  
 7910 BELLOWFLEX™ "A" COOLANT,  
   MARINE, FUEL ..... 42  
 7951 SAE 100R4 HYDRAULIC  
   RETURN/SUCTION ..... 43

INDUSTRIAL HOSE PRODUCTS INDEX ALPHABETICAL – By Hose Title