

# KOBOLD Flow Instrumentation/Media Cross Reference Chart

Rev 4/21/2021

| KOBOLD Technology Category | Specific Technology Type                | Model       | Product Description                           | Media* |       |            |         |          |           |                             |          |       |       | Flow Range**                         | Max. Pressure** | Max. Temp.**  | Connections**         | Accuracy**     |                               |                             |
|----------------------------|---|-------------|---|--------|-------|------------|---------|----------|-----------|-----------------------------|----------|-------|-------|--------------------------------------|-----------------|---|-----------------------|----------------|-------------------------------|-----------------------------|
|                            |   |             |   | Liquid |       |            |         |          |           |                             | Gas      |       |       |                                      |                 |   |                       |                | Steam                         |                             |
|                            |   |             |   | Clean  | Dirty | Aggressive | Viscous | Abrasive | Oil-Based | Ultra-Pure H <sub>2</sub> O | Slurries | Clean | Dirty |                                      |                 |   |                       |                |                               | Aggressive                  |
| Variable Area - Low Volume | Variable Area - Low Volume              | BGK         | All-Metal, Low Volume Variable Area Flowmeter | ✓      | ◆     | ◆          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✓     | ◆     | ◆                                    | ✗               | 0.026...0.26 GPH to 5...50 GPH (0.1...1 SCFH to 20...200 SCFH)                              | Per Flange            | 130 °C         | ANSI 1/2" ...1"               | ± 3% (q <sub>0</sub> 50%)   |
|                            |   | KDF/KDG     | Micro-Flowmeter and Switch                    | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ✓                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.02...2.5 LPH to 16...160 LPH (0.5...5 NI/h to 500...5,000 NI/h)                           | 230 PSIG              | 212 °F         | 1/4" NPT, or Hose             | ± 2.5% (q <sub>0</sub> 50%) |
|                            |   | KDS         | All Metal, Low Volume Variable Area Flowmeter | ✓      | ✗     | ◆          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.026...0.26 GPH to 5...50 GPH (0.1...1 SCFH to 20...200 SCFH)                              | 420 bar               | 130 °C         | 1/4" NPT                      | ± 3% of FS                  |
|                            |   | KFR         | Acrylic Flowmeter                             | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.02...2 GPH to 2...20 GPM (0.1...1 SCFH to 10...100 SCFM)                                  | 100 PSIG              | 150 °F         | 1/8", 1/4", or 1" NPT         | ± 2-5% of FS                |
|                            |   | KSK         | All-Plastic Low-Flow Flowmeter and Switch     | ✓      | ◆     | ✓          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.006...0.05 GPM to 11.8...60 GPM (0.06...0.27 SCFM to 3.5...18.3 SCFM)                     | 145 PSIG              | 180 °F         | 3/8"...1" NPT or Glue Socket  | ± 4% of FS                  |
|                            |   | KSR/SVN     | Low Volume Flow Switch                        | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.03...4 GPH (0.1...13 SCFH)  | 230 PSIG              | 160 °F         | 1/4" NPT or G                 | Call Factory                |
|                            |   | KSV         | Economical Micro-Flowmeter                    | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.04...0.4 GPH to 2...20 GPH (0.3...3 SCFH to 10...100 SCFH)                                | 87 PSIG               | 250 °F         | 1/8" NPT                      | ± 6% of FS                  |
|                            |   | SWK         | Compact Flowmeter and Switch                  | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                                    | ✗               | 0.05...0.1 LPM to 13...24 LPM   | 3,600 PSIG            | 210 °F         | G 1/2                         | ± 2.5-4% (Repeatability)    |
|                            |   | UMR/UXR/URA | Glass Tube Variable Area Flowmeter            | ✓      | ✗     | ◆          | ✗       | ✗        | ◆         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 1...10 l/h to 13...130 l/h (0.01...0.1 Nm <sup>3</sup> /h to 0.25...2.5 Nm <sup>3</sup> /h) | 16 bar                | 100 °C         | 1/4" NPT or G                 | 4 Acc. VDI/VDE              |
| UTS                        | Variable Area Flowmeter for Gas Burners | ✗           | ✗   | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✓                           | ✗        | ◆     | ✗     | 0.35...3.53 SCFH to 10.59...105 SCFH | 45 PSIG         | 150 °F  | 1/4" NPT or G, Others | 4 Acc. VDI/VDE |                               |                             |
| Variable Area              | Variable Area                           | BGF         | All-Metal Armored Flowmeter                   | ✓      | ✗     | ◆          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ◆               | 0.002...0.02 GPM to 60...570 GPM (0.008...0.08 SCFM to 140...1,400 SCFM)                    | 5,800 PSIG            | 390 °F         | 1/4"...2" NPT, 1/2"...3" ANSI | ± 2% of FS                  |
|                            |   | BGN         | All-Metal Armored Flowmeter                   | ✓      | ✗     | ◆          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ◆               | 0.044...0.44 GPM to 26.4...264 GPM (0.17...1.7 SCFM to 100...1000 SCFM)                     | 8,700 PSIG            | 660 °F         | 1/4"...2" NPT, 1/2"...6" ANSI | ± 1.6-2.2% of FS            |
|                            |   | BVO         | OEM Flowmeter and Switch                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                                    | ✗               | 0.1...1.0 GPM to 1...13 GPM   | 145 PSIG              | 212 °F         | 1/4"...1" NPT                 | ± 10% of FS                 |
|                            |   | KSM         | All-Plastic Flowmeter and Switch              | ✓      | ◆     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.06...0.66 GPM to 35...264 GPM (0.5...3 SCFM to 50...400 SCFM)                             | 145 PSIG              | 140 °F         | 1"...2-1/2" NPT, Glue Socket  | ± 4% of FS                  |
|                            |   | S-Series    | All-Metal Flow Switch                         | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.075...0.25 GPM to 1...14 GPM (0.2...1.1 SCFM to 3...70 SCFM)                              | 5,000 PSIG            | 240 °F         | 1/4" or 3/4" NPT              | ± 5% of FS                  |
|                            |   | SM          | High Pressure All-Metal Flowmeter and Switch  | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.04...0.6 GPM to 4...40 GPM (0.2...1 SCFM to 5...130 SCFM)                                 | 5,000 PSIG            | 212 °F         | 1/4" or 1-1/4" NPT            | ± 5% of FS                  |
|                            |   | SMN         | Flow Switch                                   | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                                    | ✗               | 0.4...13 GPM  | 5,000 PSIG            | 212 °F         | 1" NPT                        | Call Factory                |
|                            |   | SV          | Float-Type Flowmeter and Switch               | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ◆                                    | ✗               | 0.075...0.35 GPM to 2.5...40 GPM (0.25...1.25 SCFM to 10...150 SCFM)                        | 145 PSIG              | 212 °F         | 1/4"...1-1/4" NPT             | ± 5% of FS                  |

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| KOBOLD Technology Category | Specific Technology Type               | Model                | Product Description                                     | Media* |       |            |         |          |           |                             |          |       |                                   |                                   | Flow Range**                         | Max. Pressure**   | Max. Temp.**                        | Connections**                               | Accuracy**            |                           |
|----------------------------|--|----------------------|---|--------|-------|------------|---------|----------|-----------|-----------------------------|----------|-------|-----------------------------------|-----------------------------------|--------------------------------------|---|-------------------------------------|---|-----------------------|---------------------------|
|                            |  |                      |   | Liquid |       |            |         |          |           |                             | Gas      |       |                                   | Steam                             |                                      |   |                                     |   |                       |                           |
|                            |  |                      |   | Clean  | Dirty | Aggressive | Viscous | Abrasive | Oil-Based | Ultra-Pure H <sub>2</sub> O | Slurries | Clean | Dirty                             |                                   |                                      |   |                                     |   |                       | Aggressive                |
| Variable Area              | Variable Area                          | URK/URM              | Glass Cone Variable Area Flowmeter                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗                                 | ◆                                 | ✗                                    | 0.004...0.4 GPM to 66...220 GPM<br>(0.011...0.11 SCFM to 30...300 SCFM) | 16 bar                              | 100 °C                                      | 1/2"...3" ANSI        | ± 2.5-4% FS               |
|                            |  | USR                  | Glass Tube Variable Area Flowmeters and Manifold Valves | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗                                 | ◆                                 | ✗                                    | 0.01...0.1 GPM to 0.25...2.5 GPM  | 230 PSIG                            | 210 °F                                      | 1" NPT                | 2.5 Acc. VDI/VDE 3513     |
|                            |  | UVR/UTR              | Glass Tube Variable Area Flowmeter and Needle Valve     | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗                                 | ◆                                 | ✗                                    | 2.6...26 GPH to 52.8...528 GPH<br>(3.5...35 SCFH to 176...1,760 SCFH)   | 10 bar                              | 100 °C                                      | 3/8" or 1/2" NPT or G | 4 Acc. VDI/VDE 3513       |
|                            |  | VKA                  | OEM Viscosity-Compensated Flowmeter                     | ✓      | ✗     | ✗          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | ✗                                    | 2...6.3 GPM to 8...26 GPM   | 3,600 PSIG                          | 212 °F                                      | 1/2" or 3/4" NPT      | ± 4% FS + 4% Visc. Change |
|                            |  | VKG                  | Viscosity-Compensating Flowmeter and Switch             | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | ✗                                    | 0.03...0.12 GPM to 2...21 GPM   | 175 PSIG                            | 212 °F                                      | 1/4"...1" NPT         | ± 5% of FS                |
|                            |  | VKM                  | All-Metal Viscosity-Compensating Flowmeter and Switch   | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | ✗                                    | 0.03...0.12 GPM to 2...20 GPM   | 5,000 PSIG                          | 212 °F                                      | 1/4"...1" NPT         | ± 4% of FS                |
|                            |  | VKP                  | Plastic Flowmeter and Switch                            | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | ✗                                    | 0.5...5 GPM to 5...26 GPM   | 230 PSIG                            | 250 °F                                      | 1/2"...1" NPT         | ± 5% of FS                |
| Paddle Type                | Target-Type                            | DPT                  | Target Type Flowmeter                                   | ✓      | ◆     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗                                 | ✗                                 | 1.5...8 GPM to 225...500 GPM         | 580 PSIG  | 176 °F                              | 3/8"...3" NPT                               | ± 3% of FS            |                           |
|                            | Paddle-Bellows                         | DW                   | Paddle-Bellows Flowmeter                                | ✓      | ◆     | ◆          | ◆       | ✗        | ◆         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | 0.26...6.6 GPM to 1,850...19,800 GPM | 145 PSIG  | 210 °F                              | NPT, ANSI, Weld-on                          | ± 3-5% of FS          |                           |
|                            |  | DWD                  | Paddle-Bellows Flowmeter                                | ✓      | ◆     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗                                 | ✗                                 | 0.26...2.6 GPM to 1,580...15,800 GPM | 360 PSIG  | 250 °F                              | 3/8"...2" NPT/ANSI,<br>1-1/2"...20" Weld-on | ± 1.5 of FS           |                           |
|                            | Paddle-Type                            | FPS                  | Insertion Paddle Flow Switch                            | ✓      | ◆     | ◆          | ◆       | ✗        | ◆         | ✗                           | ✗        | ✗     | ✗                                 | ✗                                 | 0.9...4.4 GPM to 375...760 GPM       | 435 PSIG  | 250 °F                              | 1" NPT                                      | Call Factory          |                           |
|                            |  | LPS                  | Flow Switch for HVAC                                    | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✓     | ✗                                 | ✗                                 | 195...1,575 FPM                      | Call Factory  | 185 °F                              | Direct Mount                                | Call Factory          |                           |
|                            |  | PPS                  | Plastic Paddle Flow Switch                              | ✓      | ✗     | ✗          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗                                 | ✗                                 | 5...9.5 GPM to 19...28.5 GPM         | 145 PSIG  | 225 °F                              | 1" NPT                                      | ± 3% Repeatability    |                           |
|                            |  | PSR/PS               | Paddle Flow Switch                                      | ✓      | ◆     | ◆          | ✗       | ✗        | ◆         | ◆                           | ✗        | ✗     | ✗                                 | ✗                                 | 0.6...1.2 GPM to 101...140 GPM       | 3,600 PSIG  | 230 °F                              | 1/4"...1-1/2" NPT                           | ± 15% Tolerance       |                           |
| Flap-Type                  | TSK                                    | Flap-Style Flowmeter | ✓   | ◆      | ◆     | ✗          | ✗       | ◆        | ◆         | ✗                           | ✗        | ✗     | ✗                                 | 6.6...26.4 GPM to 880...6,600 GPM | 580 PSIG                             | 570 °F  | 1-1/2"...20 Wafer                   | ± 2.5% of FS                                |                       |                           |
| Rotating Vane              | Positive Displacement - Helical Gear   | OME                  | Helical Gear Flowmeter                                  | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | 0.03...2.6 GPM to 0.92...92 GPM   | 580 PSIG                             | 257 °F  | 1/2"...1-1/2" NPT                   | ± 0.1% of Flow Rate                         |                       |                           |
|                            | Positive Displacement - Spherical Gear | ZDM                  | Positive-Displacement Flowmeter                         | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | 0.0005...0.5 GPM to 0.4...138 GPM | 6,500 PSIG                           | 410 °F  | 3/8"...2" NPT                       | ± 0.3% of Flow                              |                       |                           |
|                            |  | DOE                  | Oval Gear Flowmeter                                     | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | 0.14...9.5 GPH to 16...634 GPH    | 928 PSIG                             | 176 °F  | 1/8"...1/2" NPT                     | ± 1% of Reading                             |                       |                           |
|                            |  | DON                  | Positive Displacement Flowmeter                         | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | 0.13...9.5 GPH to 40...660 GPM    | 1,450 PSIG                           | 300 °F  | 1/8"...4" NPT or G,<br>1"...4" ANSI | ± 0.2-1% of Reading                         |                       |                           |
|                            |  | DON-H                | Oval Gear Flowmeter for High Pressures                  | ✓      | ✗     | ◆          | ✓       | ✗        | ✓         | ✗                           | ✗        | ✗     | ✗                                 | 0.13...9.5 GPH to 0.26...10.6 GPM | 5,800 PSIG                           | 250 °F  | 1/8"...1/2" NPT or G                | ± 0.2-1% of Reading                         |                       |                           |
|                            | OVZ                                    | Oval-Gear Flowmeter  | ✓   | ✗      | ◆     | ✓          | ✗       | ✓        | ✗         | ✗                           | ✗        | ✗     | 0.08...2.1 GPM to 0.42...10.6 GPM | 580 PSIG                          | 176 °F                               | 1/4"...3/4" NPT or G  | ± 2.5% of FS                        |   |                       |                           |

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|----------------------------|---------------------------------------|-------------------------------|---|--------|-------|------------|---------|----------|-----------|-----------------------------|----------|-------|-------|---------------------------------|--|--|---|--------------------------------------|-------------------------------------|----------------------------------|
|                            |                                       |                               |   | Liquid |       |            |         |          |           |                             | Gas      |       |       | Steam                           |  |  |   |                                      |                                     |                                  |
|                            |                                       |                               |   | Clean  | Dirty | Aggressive | Viscous | Abrasive | Oil-Based | Ultra-Pure H <sub>2</sub> O | Slurries | Clean | Dirty |                                 |  |  |   |                                      |                                     | Aggressive                       |
| Rotating Vane              | Paddle-Wheel                          | DF-Series                     | Flowmeters and Flow Sensors                   | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.02...0.14 GPM to 1.5...36 GPM  | 1,450 PSIG                                  | 180 °F                               | 1/8"...1-1/2" NPT                   | ± 2.5% of FS                     |
|                            |                                       | DFT                           | Paddle-Wheel Flow Sensor                      | ✓      | ✗     | ✓          | ✗       | ✗        | ✗         | ✓                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.05...0.5 GPM to 0.8...15 GPM   | 230 PSIG                                    | 176 °F                               | 1/4"...3/4" NPT                     | ± 2.5-5% of FS                   |
|                            |                                       | DPE                           | Paddle-Wheel Flowmeter                        | ✓      | ◆     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 1.5...8 GPM to 15...200 GPM  | 580 PSIG                                    | 176 °F                               | 1/2"...3" NPT                       | ± 2.5% of FS                     |
|                            |                                       | DPL                           | All-Plastic, Low Flow Sensor                  | ✓      | ✗     | ✓          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.4...8 GPH to 16...400 GPH  | 145 PSIG                                    | 158 °F                               | G 1/2, Hose Barb                    | ± 5% of FS                       |
|                            |                                       | DRB                           | Paddle-Wheel Flowmeter                        | ✓      | ◆     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 1.5...8 GPM to 15...200 GPM  | 250 PSIG                                    | 176 °F                               | 1/2"...3" NPT                       | ± 3% of FS                       |
|                            |                                       | DRG                           | Paddle-Wheel Flow Sensor                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.15...3 GPM to 3...37 GPM   | 580 PSIG                                    | 176 °F                               | 1/8"...1" NPT                       | ± 3% of FS                       |
|                            |                                       | DRH                           | Paddle-Wheel Flow Sensor                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.05...0.2 GPM to 0.66...13.2 GPM  | 580 PSIG                                    | 176 °F                               | 3/8"...1" NPT                       | ± 2.5% of FS                     |
|                            | Pelton Wheel                          | DPM                           | Pelton Wheel Flow Sensor                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.24...4.8 GPH to 0.8...80 GPH   | 230 PSIG                                    | 176 °F                               | 1/8" or 1/4" NPT or G               | ± 1.5-2.5% of FS                 |
|                            |                                       | DTK                           | Pelton Wheel Flow Sensor                      | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.8...9.5 GPH to 16...190 GPH  | 430 PSIG                                    | 284 °F                               | 1/4" NPT or G                       | ± 2% of FS                       |
|                            |                                       | KFF/KFG                       | Low Volume Rotating Vane Flowmeter            | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ✓                           | ✗        | ◆     | ✗     | ◆                               | ✗  | 13...100mL/min to 1...10 L/min<br>(20...100 mL <sub>N</sub> /min to 100...500 L <sub>N</sub> /min) | 500 PSIG                                    | 120 °F                               | 1/8"...1/2" Tube                    | ± 3% of FS                       |
|                            | Turbine                               | DOT                           | Turbine Flowmeter/Monitor                     | ✓      | ✗     | ◆          | ✗       | ✗        | ◆         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.5...5 GPM to 240...2,400 GPM   | 3,600 PSIG                                  | 250 °F                               | 1/2"...2" NPT,<br>1/2"...6" ANSI    | ± 0.5% of Reading<br>(Linearity) |
|                            |                                       | DRS                           | OEM Turbine Flow Sensor                       | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.6...10.5 GPM   | 2,900 PSIG                                  | 300 °F                               | 1/2" or 3/4" NPT or G               | ±1.5% of FS                      |
|                            |                                       | SFL                           | Turbine Flow Sensor                           | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | ✗  | 0.5...20 l/min   | 250 bar                                     | 90 °C                                | G 3/8                               | ±1% of FS                        |
| TUR                        |                                       | All-Plastic Turbine Flowmeter | ✓   | ◆      | ✓     | ✗          | ✗       | ◆        | ◆         | ✗                           | ✗        | ✗     | ✗     | ✗                               | 5...88 GPM to 11...440 GPM   | 145 PSIG   | 158 °F                                      | 2" or 4" ANSI                        | ± 1% of FS                          |                                  |
| Rotary Piston              | DRZ                                   | Rotary Piston Flowmeter       | ✓   | ✗      | ✗     | ✓          | ✗       | ✓        | ✗         | ✗                           | ✗        | ✗     | ✗     | 1.6...110 GPH                   | 580 PSIG   | 176 °F   | 1/8" or 1/4" NPT                            | ± 1% of Reading                      |                                     |                                  |
| Without Moving Parts       | Coriolis                              | HPC                           | Low Flow Coriolis Flowmeter                   | ✓      | ◆     | ✓          | ◆       | ◆        | ◆         | ◆                           | ◆        | ✗     | ◆     | ◆                               | 2...20 kg/h to 5...50 kg/h   | 5,800 PSIG   | 356 °F                                      | 1/2" NPT, Others                     | ± 0.1-0.5% Reading                  |                                  |
|                            |                                       | TM                            | Universal, Special Purpose Coriolis Flowmeter | ✓      | ◆     | ✓          | ◆       | ◆        | ◆         | ◆                           | ◆        | ✗     | ◆     | ◆                               | 0.003...0.3 lbs/min to 220...2,400 lbs/min                               | 40 bar   | 260 °C                                      | 1/4"...1/2" NPT,<br>Flange           | ± 0.1% of Reading<br>+ ZP Stability |                                  |
|                            |                                       | TMU                           | High Performance Coriolis Flowmeter           | ✓      | ◆     | ✓          | ◆       | ◆        | ◆         | ◆                           | ◆        | ✗     | ◆     | ◆                               | 0...1,320 lbs/hr to 0...2,200 tons/hr                                    | 580 PSIG   | 500 °F                                      | 1/4" or 1/2" NPT,<br>1/2"...16" ANSI | ± 0.15% of Reading                  |                                  |
|                            |                                       | TMU-W                         | High Pressure Coriolis Meter                  | ✓      | ◆     | ✓          | ◆       | ◆        | ◆         | ◆                           | ◆        | ✗     | ◆     | ◆                               | 4 kg/min H <sub>2</sub>  | 1000 bar   | 100 °C                                      | NPT, UNF, Hofer                      | ± 0.5% of Rate                      |                                  |
|                            | Differential Pressure                 | KEL                           | Heavy Duty DP Flowmeters                      | ✓      | ✗     | ✓          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✗     | ✗     | ✗                               | 0.1...0.5 GPM to 400...2,000 GPM   | 230 PSIG   | 480 °F                                      | 1/2"...1-1/2" NPT,<br>1/2"...8" ANSI | ± 3-5% of FS                        |                                  |
|                            |                                       | RCD                           | Ultra-Rugged DP Flowmeter                     | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                               | 0.2...0.88 GPM to 100...600 GPM  | 580 PSIG   | 176 °F                                      | 1/2"...3" NPT                        | ± 3% of FS                          |                                  |
|                            |                                       | RCM                           | Direct-Reading Flowmeter                      | ✓      | ✗     | ✓          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✓     | ✗     | ✓                               | 0.3...2 GPM to 400...3,000 GPM<br>(1.5...10 SCFM to 3,000...20,000 SCFM) | 400 PSIG   | 350 °F                                      | 1/4"...3" NPT,<br>1/2"...8" Wafer    | ± 3% of FS                          |                                  |
|                            | Hot-Film Anemometer                   | KAH                           | Air Velocity Sensor                           | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✓     | ✗     | ✗                               | 0...2,000/3,000/4,000 ft/min   | Call Factory   | 122 °F                                      | Clamp                                | Call Factory                        |                                  |
|                            | Magnetic-Inductive (Electro-magnetic) | EPS                           | Magnetic-Inductive Flowmeter                  | ✓      | ✓     | ✓          | ✓       | ✓        | ✗         | ✗                           | ✓        | ✗     | ✗     | ✗                               | 0.5...10 m/sec   | 580 PSIG   | 300 °F                                      | 1/2" NPT,<br>1/2"...24" ANSI         | ± 0.3% of Measured Value            |                                  |
| MIK                        |                                       | Economical Magmeter           | ✓   | ✓      | ✓     | ◆          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✗     | ✗     | 0.18...7.8 GPH to 9.5...180 GPM | 145 PSIG   | 176 °F   | 1/4"...2" NPT,<br>Hose Barb,<br>Glue Socket | ± 2% of FS                           |                                     |                                  |

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| KOBOLD Technology Category | Specific Technology Type             | Model                                     | Product Description                            | Media* |       |            |         |          |           |                             |          |       |       |                               | Flow Range**   | Max. Pressure**                    | Max. Temp.**        | Connections**               | Accuracy**                                 |                                 |
|----------------------------|--------------------------------------|---|--|--------|-------|------------|---------|----------|-----------|-----------------------------|----------|-------|-------|-------------------------------|--|------------------------------------|---------------------|-----------------------------|--|---------------------------------|
|                            |                                      |   |  | Liquid |       |            |         |          |           |                             |          | Gas   |       |                               |  |                                    |                     |                             |  | Steam                           |
|                            |                                      |   |  | Clean  | Dirty | Aggressive | Viscous | Abrasive | Oil-Based | Ultra-Pure H <sub>2</sub> O | Slurries | Clean | Dirty | Aggressive                    |  |                                    |                     |                             |  |                                 |
| Without Moving Parts       | Magnetic-Inductive (Electromagnetic) | MIM                                       | All-Metal Electromagnetic Flowmeter            | ✓      | ✓     | ✓          | ◆       | ✗        | ✗         | ✗                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 0.16...16 GPH to 0.8...170 GPM     | 230 PSIG            | 284 °F                      | 1/4" ...3/4" or 2" NPT, 1" or 2" Tri-Clamp | < ± (0.8% Reading + 0.5% of FS) |
|                            |                                      | MIS                                       | All-Metal Electromagnetic Flowmeter            | ✓      | ✓     | ✓          | ◆       | ✗        | ✗         | ✗                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 3.3...33 ft/sec                    | 230 PSIG            | 158 °F                      | 3" ...8" ANSI                              | ± 0.2% of FS)                   |
|                            |                                      | PIT                                       | Insertion Magnetic Flowmeter                   | ✓      | ✓     | ✓          | ✓       | ✓        | ✗         | ✗                           | ◆        | ✗     | ✗     | ✗                             | ✗  | 3.3...33 ft/sec                    | 580 PSIG            | 284 °F                      | 2" or 3" ANSI                              | ± (1.5% Reading + 0.5% of Span) |
|                            |                                      | PITe                                      | Magnetic Inductive Flowmeter                   | ✓      | ✓     | ✓          | ✓       | ✓        | ✗         | ✗                           | ◆        | ✗     | ✗     | ✗                             | ✗  | 3.3...33 ft/sec                    | 230 PSIG            | 212 °F                      | 3" ...16" Line Sizes                       | ± 1.5% of Reading               |
|                            | Thermal                              | DOG                                       | Oscillation Flowmeter                          | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✓     | ✗     | ◆                             | ✗  | 0.12...12 m³/h to 60...6,000 m³/h  | 40 bar              | 248 °F                      | 1" ...8" ANSI                              | ± 1.5% of Measured Value        |
|                            |                                      | KAL                                       | Temperature-Compensating Thermal Flow Switch   | ✓      | ✓     | ✓          | ✗       | ✓        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 0.15...6.6 ft/sec                  | 1,450 PSIG          | 250 °F                      | 1/4" ...1-1/2" NPT                         | Call Factory                    |
|                            |                                      | KAL-A                                     | Thermal Flow Sensor                            | ✓      | ✓     | ✓          | ✗       | ✓        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 0.15...6.6 ft/sec                  | 1,450 PSIG          | 176 °F                      | 1/2" or 3/4" NPT, 1-1/2" Tri-Clamp         | ± 1% (Repeatability)            |
|                            |                                      | KAL-D                                     | Compact Thermal Flow Switch                    | ✓      | ✓     | ✓          | ✗       | ✓        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 0.15...6.6 ft/sec                  | 580 PSIG            | 176 °F                      | 1/4" or 1/2" NPT, M12x1, G                 | ± 2% (Repeatability)            |
|                            |                                      | KAL-K                                     | Thermal Flow Switch with Flow Trend Indication | ✓      | ✓     | ✓          | ✗       | ✓        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗                             | ✗  | 0.15...6.6 ft/sec                  | 1,450 PSIG          | 250 °F                      | 1/2" or 3/4" NPT, 1-1/2" Tri-Clamp         | ± 1% (Repeatability)            |
|                            |                                      | KAL-L                                     | Thermal Air Flow Switch                        | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✓     | ✗     | ✗                             | ✗  | 3.3...65 ft/sec                    | 120 PSIG            | 250 °F                      | 1/2" NPT, Flange                           | ± 10% of Reading                |
|                            |                                      | KME                                       | Compact Inline Flowmeter                       | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✗        | ✓     | ✗     | ◆                             | ✗  | 0.12...44.4 SCFM to 1.3...500 SCFM | 16 bar              | 60 °C                       | 1/2" ...1" NPT                             | ± 3% of Reading + 0.3% of FS    |
|                            | KMT                                  | Thermal Mass Flowmeter                    | ✗  | ✗      | ✗     | ✗          | ✗       | ✗        | ✗         | ✗                           | ✓        | ✗     | ◆     | ✗                             | 0.32...63 Nm³/h to 263...263,350 Nm³/h                                       | 16 bar                             | 80 °C               | 1/2" ...2" NPT              | ± 1.5% of Reading + 0.5%-0.8% of FS        |                                 |
|                            | Ultrasonic - Clamp-on                | DUC                                       | Clamp-on Ultrasonic Flowmeter                  | ✓      | ◆     | ✓          | ✓       | ✓        | ✓         | ✓                           | ◆        | ✗     | ✗     | ✗                             | ✗  | 0...98 ft/sec                      | NA                  | 300 °F                      | 3/8" ...20" Line Sizes                     | Up to ± 1% of Reading           |
| Ultrasonic - Inline        | DUK                                  | Compact Ultrasonic Flowmeter              | ✓  | ✗      | ◆     | ✗          | ✗       | ✗        | ◆         | ✗                           | ✗        | ✗     | ✗     | 0.02...5 GPM to 0.6...160 GPM | 230 PSIG   | 194 °F                             | 1/2" ...3" NPT or G | ± 0.7% of Rate ± 0.7% of FS |  |                                 |
| Vortex - Multivariable     | DVE                                  | Multi-Variable Insertion Design Flowmeter | ✓  | ◆      | ◆     | ◆          | ✗       | ◆        | ◆         | ✗                           | ✓        | ✗     | ✓     | ✓                             | 5.2...157 m³/h to 284...8,537 m³/h (889...1,463 to 26,915...2,467,081 Nm³/h) | 100 bar                            | 400 °C              | 3" ...24" Line Sizes        | ± 1.2%...1.5% of Reading                   |                                 |
|                            | DVH                                  | Multivariable Flowmeter                   | ✓  | ◆      | ◆     | ◆          | ✗       | ◆        | ◆         | ✗                           | ✓        | ✗     | ✓     | ✓                             | 0.89...22 GPM to 141...4,270 GPM (1.8...18 SCFM to 2,071...203,000 SCFM)     | 1,450 PSIA                         | 750 °F              | 1/2" ...8" ANSI             | ± 0.7%...1% of Reading                     |                                 |
| Vortex                     | DVZ                                  | Vortex Flowmeter and Switch               | ✓  | ✗      | ◆     | ✗          | ✗       | ✗        | ◆         | ✗                           | ✗        | ✗     | ✗     | ✗                             | 0.13...1.2 GPM to 2.6...26.5 GPM   | 290 PSIG                           | 176 °F              | 1/4" ...1" NPT or G         | ± 2.5% of FS                               |                                 |

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|----------------------------|--------------------------|-------|---|--------|-------|------------|---------|----------|-----------|-----------------------------|----------|-------|-------|-------|--------------|-----------------|--|---------------|------------|----------------------------------|----|
|                            |                          |       |   | Liquid |       |            |         |          |           |                             | Gas      |       |       | Steam |              |                 |  |               |            |                                  |    |
|                            |                          |       |   | Clean  | Dirty | Aggressive | Viscous | Abrasive | Oil-Based | Ultra-Pure H <sub>2</sub> O | Slurries | Clean | Dirty |       |              |                 |  |               |            | Aggressive                       |    |
| Indicators                 | Indicators               | DA    | Sight Flow Indicators                       | ✓      | ◆     | ◆          | ◆       | ◆        | ◆         | ◆                           | ◆        | ✗     | ✗     | ✗     | ✗            | ✗               | Call Factory   | 580 PSI       | 530 °F     | 1/4"...2" NPT,<br>1/2"...8" ANSI | NA |
|                            |                          | DAA   | Flow Indicator with Self-Cleaning Mechanism | ✓      | ◆     | ◆          | ◆       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.11...2.2 to 2.12...33 GPM                                | 230 PSI       | 212 °F     | 1/4"...1-1/2" NPT                | NA |
|                            |                          | DAF   | Paddle-Wheel Flow Indicator                 | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.5...1.6 GPH to 80...2,380 GPM                            | 235 PSI       | 230 °F     | 1/8"...1-1/2" NPT                | NA |
|                            |                          | DAZ   | Referencing Flap Flow Indicator             | ✓      | ◆     | ◆          | ◆       | ✗        | ◆         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.8...5.3 to 0.9...7.9 GPM                                 | 230 PSI       | 390 °F     | 1/2"...1" NPT                    | NA |
|                            |                          | DIG   | Rotating Vane Flow Indicator                | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.13...3.2 to 0.79...21 GPM                                | 230 PSI       | 176 °F     | 1/8"...1" NPT                    | NA |
|                            |                          | DIH   | Rotating Vane Flow Indicator                | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.05...0.13 to 0.26...13.2 GPM                             | 230 PSI       | 176 °F     | 3/8" or 1" NPT                   | NA |
|                            |                          | DKB   | Flow Indicator with Ball                    | ✓      | ✗     | ◆          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✓     | ✗     | ✗     | ✗            | ✗               | 0.014...4 to 0.037...27 GPM<br>0.11...14 to 0.25...88 SCFM | 85 PSI        | 250 °F     | 1/8"...1" NPT                    | NA |
|                            |                          | DKF   | Paddle-Wheel Flow Indicator                 | ✓      | ✗     | ✗          | ✗       | ✗        | ✗         | ◆                           | ✗        | ✗     | ✗     | ✗     | ✗            | ✗               | 0.04...0.5 to 0.5...22 GPM                                 | 85 PSI        | 250 °F     | 1/8"...1" NPT                    | NA |

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