



Badger Meter Europa

# Selection matrix

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| Technology   | Series name                        | Liquids   |                       |               |         |          |                   |                 |           |                  |             |       | in l/min   |           | High temp rating (celsius) | High pressure rating (bar) | Pipe diameters (mm) |            |            |          |
|--|------------------------------------|---|-----------------------|---------------|---------|----------|-------------------|-----------------|-----------|------------------|-------------|-------|------------|-----------|----------------------------|----------------------------|---------------------|------------|------------|----------|
|  |                                    | Clean   | Dirty                 | Corrosive     | Viscous | Abrasive | Oil-based liquids | Ultrapure water | Cryogenic | Fibrous slurries | Air & gases | Steam | Multiphase | Low flows |                            |                            |                     | High flows |            |          |
| <b>Badger Meter</b><br>• Market leader in positive displacement meter technology<br>• Rugged handheld liquid dispensing options  | Positive displacement              | Model IOG   | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 0,9                        | 60                  | 115        | 55         | 13 - 25  |
|  |                                    | Oscillating piston  | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 3,8                        | 380                 | 120        | 10         | 13 - 50  |
|  |                                    | RCDL nutating disc  | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 2                          | 645                 | 120        | 10         | 13 - 50  |
|  |                                    | Oval gear meter   | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 0,9                        | 40                  | 50         | 40         | 13       |
|  |                                    | Hose end meter  | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 1,5                        | 15                  | 40         | 65         | 13       |
|  |                                    | Universal series  | ✓                     | ☒             | ☒       | ✓        | ☒                 | ✓               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 1,5                        | 15                  | 65         | 65         | 13       |
|  | Positive displacement plus turbine | RCDL Compound   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 0,9                        | 5600                | 50         | 10         | 51 - 150 |
|  | Turbine                            | RCDL Turbo  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 15                         | 75000               | 50         | 10         | 40 - 500 |
|  |                                    | Industrial Turbo  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 30                         | 7570                | 120        | 10         | 50 - 150 |
| Vision   |                                    | ✓   | ☒                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 0,1                        | 35                         | 100                 | 25         | 6 - 9      |          |
| <b>Data industrial</b><br>• Proven flow metering solution<br>• Full line of PVC and metal in-line designs support a wide range of facility applications from HVAC to sub-metering to irrigation<br>• Some insertion models include hot-tap options | Impeller in-line                   | 380 Btu meter   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 6,4                        | 595                        | 125                 | 25         | 20 - 50    |          |
|  |                                    | 735   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 4,5                        | 185                        | 40                  | 11         | 13 - 25    |          |
|  |                                    | 5000  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 0,7                        | 185                        | 105                 | 25         | 13 - 25    |          |
|  |                                    | 228PV   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 10                         | 4450                       | 105                 | 7          | 40 - 100   |          |
|  |                                    | 228 metal   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 1                          | 1700                       | 105                 | 20         | 50 - 65    |          |
|  |                                    | 250B  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 4                          | 415                        | 105                 | 27         | 13 - 40    |          |
|  | Impeller insertion                 | SDI   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 6                          | 240.000                    | 149                 | 65         | 40 - 900   |          |
|  |                                    | 220   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 11                         | 296.000                    | 105                 | 25         | 50 - 1000+ |          |
|  |                                    | 220PVS  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 11                         | 296.000                    | 60                  | 7          | 50 - 1000+ |          |
|  |                                    | 225   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 11                         | 296.000                    | 105                 | 25         | 50 - 1000+ |          |
|  |                                    | 226   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 11                         | 296.000                    | 105                 | 25         | 50 - 1000+ |          |
|  |                                    | <b>Hedland</b><br>• Installation at any angle<br>• Special scales available<br>• Quick delivery | In-line variable area | High pressure | ✓       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | ☒                          | 0,08                       | 1515                | 260        | 400        | 6 - 76   |
| EZ-View®   | ✓                                  |   |                       | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 1,9                        | 380                        | 120                 | 20         | 13 - 50    |          |
| <b>Flo-tech</b><br>• Single device measures flow, pressure and temperature<br>• High pressure capability<br>• Rugged design  | In-line turbines                   | Activa, Ultima  | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | 1,5       | 605                        | 150                        | 400                 | 6 - 32     |            |          |
|  |                                    | Portable hydraulic testers  | PFM, Flo-Check        | ✓             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 3,8                        | 755                        | 150                 | 400        | 19 - 40    |          |
|  | MC4000                             |   | ✓                     | ☒             | ☒       | ☒        | ☒                 | ☒               | ☒         | ☒                | ☒           | ☒     | ☒          | ☒         | 1,5                        | 605                        | 200                 | 400        | 6 - 32     |          |

✓ Ideally suited    ☒ Normally applicable    ☒ Not suitable    ☒ Consult factory



|  | Technology             | Series name     | Liquids |       |           |         |          |                   |                 |           |                  |             |       | in l/min              |           | High temp rating (celsius) | High pressure rating (bar) | Pipe diameters (mm) |            |        |
|--|------------------------|-----------------|---------|-------|-----------|---------|----------|-------------------|-----------------|-----------|------------------|-------------|-------|-----------------------|-----------|----------------------------|----------------------------|---------------------|------------|--------|
|  |                        |                 | Clean   | Dirty | Corrosive | Viscous | Abrasive | Oil-based liquids | Ultrapure water | Cryogenic | Fibrous slurries | Air & gases | Steam | Multiphase            | Low flows |                            |                            |                     | High flows |        |
| <b>Blancett</b><br>• Rugged, 316 SS with tungsten carbide internal parts<br>• ± 1% accuracy liquid meters<br>• Easy to install<br>• Field-replaceable internal repair kits                                 | Positive displacement  | B1750           | ✓       | X     | ☎         | ✓       | X        | ☞                 | ☎               | X         | X                | X           | X     | X                     | X         | 0,01                       | 455                        | 205                 | 345        | 6 - 30 |
|  | In-line turbines       | 1100            | ✓       | ☎     | ☎         | ☎       | ☎        | ☞                 | ☞               | X         | X                | X           | X     | X                     | 2         | 19.000                     | 175                        | 345                 | 13 - 255   |        |
|  |                        | QuikSert        | ✓       | ☎     | ☎         | ☎       | ☎        | ☞                 | ☞               | X         | X                | X           | X     | X                     | 2         | 19.000                     | 175                        | 255                 | 10 - 255   |        |
|  |                        | FloClean        | ✓       | ☎     | ☎         | ☎       | ☎        | ☞                 | ☞               | X         | X                | X           | X     | X                     | 2         | 1.500                      | 175                        | 70                  | 25 - 75    |        |
|  |                        | Gas QuikSert    | X       | X     | X         | X       | X        | X                 | X               | X         | X                | ☞           | X     | X                     | 7 afcm    | 350 afcm                   | 165                        | 150                 | 50         |        |
| <b>Cox</b><br>• Patented turbine designs for high accuracy (up to ±0.10%)<br>• Cost effective alternative to electronic metering options of similar accuracy<br>• Suitable for high-vibration environments | High pressure turbines | Single rotor    | ✓       | ☎     | ☞         | ☎       | ☎        | ✓                 | ✓               | ✓         | X                | X           | X     | X                     | 0,02      | 2.000                      | 260                        | 483                 | 6 - 65     |        |
|  |                        | Dual rotor      | ✓       | ☎     | ☞         | ☎       | ☎        | ✓                 | ✓               | ✓         | X                | X           | X     | X                     | 0,10      | 5.700                      | 150                        | 2000                | 6 - 100    |        |
| <b>Racine</b><br>• No moving parts<br>• No minimum pressure requirements on gas meters<br>• High turndown ratios on gas meters   | Vortex shedding        | RNL             | ✓       | ☞     | ☞         | X       | X        | X                 | ✓               | X         | X                | X           | X     | 295                   | 45        | 150                        | 17                         | 100+                |            |        |
|  |                        | RVL             | ✓       | ☎     | ☞         | X       | X        | X                 | ✓               | X         | X                | X           | X     | 2                     | 1150      | 95                         | 10                         | 13 - 75             |            |        |
|  |                        | RWG, RWGB       | X       | X     | X         | X       | X        | X                 | X               | X         | X                | ✓           | X     | X                     | 0.4 afcm  | 600 afcm                   | 185                        | 17                  | 13 - 100   |        |
|  |                        | RNG             | X       | X     | X         | X       | X        | X                 | X               | X         | X                | ✓           | X     | X                     | 295       | 21.000                     | 150                        | 17                  | 100+       |        |
| <b>Praso</b><br>• Ellipse Pitot tube has highest turndown ratio (17:1) & lowest permanent pressure loss among competitors<br>• Very low Reynolds number (COIN meter)                                       | Venturi                | SSL, SSM, LPL   | ✓       | ☞     | ☎         | ☎       | ☎        | ☞                 | ✓               | X         | ☎                | ✓           | ✓     | Application dependent |           |                            |                            |                     |            |        |
|  |                        | CV              | ✓       | ☞     | ☎         | ☎       | ☎        | ☞                 | ✓               | X         | ☎                | ✓           | X     |                       |           |                            |                            |                     |            |        |
|  | Pitot tubes            | Ellipse         | ✓       | ☎     | ☞         | ☎       | X        | ☞                 | ✓               | X         | X                | ✓           | ✓     |                       | X         |                            |                            |                     |            |        |
|  |                        | Segmented wedge | COIN    | ✓     | ✓         | ☞       | ✓        | ✓                 | ☞               | ✓         | X                | ☞           | ✓     |                       | ✓         | X                          |                            |                     |            |        |
| <b>Badger Meter</b><br>• Complete line of MAG meters for general purpose, sanitary and intrinsically-safe environments<br>• 7500 models feature built-in batch capability                                  | Electromagnetic        | ModMAG® M1000   | ✓       | ✓     | ✓         | ☞       | ✓        | X                 | X               | X         | X                | X           | X     | 0,05                  | 22.500    | 150                        | 100                        | 6-200               |            |        |
|  |                        | ModMAG® M2000   | ✓       | ✓     | ✓         | ☞       | ✓        | X                 | X               | X         | X                | X           | X     | X                     | 0,05      | 2.250.000                  | 150                        | 100                 | 6 - 2000   |        |
|  |                        | ModMAG® M3000   | ✓       | ✓     | ✓         | ☞       | ✓        | X                 | X               | X         | X                | X           | X     | X                     | 0,05      | 203.000                    | 120                        | 100                 | 6 - 600    |        |
|  |                        | ModMAG® M4000   | ✓       | ✓     | ✓         | ☞       | ✓        | X                 | X               | X         | X                | X           | X     | X                     | 0,05      | 50.000                     | 120                        | 100                 | 6 - 300    |        |
|  |                        | B-MAG   M5000   | ✓       | X     | X         | X       | X        | X                 | X               | X         | X                | X           | X     | X                     | 0,3       | 166.000                    | 80                         | 100                 | 15 - 600   |        |
| <b>Dynasonics</b><br>• Non-invasive, clamp-on style models<br>• No process shutdown on clamp-on<br>• Large turndown ratio<br>• Btu metering options  | Transit-time           | TFX Ultra, TFXL | ✓       | ☎     | ☞         | ☎       | ☎        | ☎                 | ✓               | X         | X                | X           | X     | X                     | <0,17     | 95                         | 175                        | N/A                 | 13+        |        |
|  | Doppler                | DFX, UFX        | ☎       | ✓     | ☞         | ☞       | ☞        | ☎                 | X               | X         | ☞                | X           | X     | X                     | 2         | 17                         | 205                        | N/A                 | 6+         |        |
|  | Hybrid                 | DXN             | ✓       | ✓     | ☞         | ☞       | ☞        | ☎                 | ✓               | X         | ☞                | X           | X     | X                     | 0,01      | 20                         | 120                        | N/A                 | 6+         |        |

✓ Ideally suited    ☞ Normally applicable    X Not suitable    ☎ Consult factory