

TECHNICAL DOCUMENT

| | | |
|-------------------|-------|----------|
| Ra | 0.2 | ▽▽▽▽ |
| | 1.6 | ▽▽▽ |
| | 6.3 | ▽▽ |
| | 25 | ▽ |
| GENERAL TOLERANCE | ± 0.1 | 0.5~5 |
| | ± 0.2 | 6~30 |
| | ± 0.3 | 9~100 |
| | ± 0.5 | 121~320 |
| | ± 0.8 | 321~1000 |

PCD \varnothing D2
PCD \varnothing D1
R1
R2

FEATURES :
- FACE TO FACE : EN 558-1 R27
- FLANGE END : EN 1092-1
- WALL THICKNESS : EN 12516-1
- API 607 FIRE SAFE APPROVED
- TEST : EN 12266-1

| ITEM | PARTS | MATERIAL | |
|------|-------------------|----------------|------------|
| | | 1.4408 | 1.0619 |
| 1 | BODY | KH2FD16AIT | KH2FD16IIT |
| 2 | CAP | | |
| 3 | BALL | ASTM A351-CF8M | |
| 4 | STEM | ASTM A276-316 | |
| 5 | SEAT | RTFE / TFM1600 | |
| 6 | SEAL | GRAPHITE | |
| 7 | THRUST WASHER | CTFE | |
| 8 | O-RING | VITON | |
| 9 | PACKING A | GRAPHITE | |
| 10 | PACKING B | CTFE | |
| 11 | GLAND RING | AISI 304 | |
| 12 | BELLEVILLE WASHER | AISI 301 | |
| 13 | NUT | AISI 304 | |
| 14 | LOCK WASHER | | |
| 15 | STOPPER | | |
| 16 | HANDLE | | |
| 17 | STUD | | |
| 18 | NUT | | |
| 19 | SOCKET SET SCREWS | | |

| DN | d | G | C | D | L | H | W | T | f | D1 | D2 | R1 | R2 | N | M | Torque (N-m) | | Weight (kg) |
|---------|----|-----|-----|-----|-----|-------|-----|----|---|-----|-----|------|------|---|----|--------------|-----------|-------------|
| | | | | | | | | | | | | | | | | Action | Breakaway | |
| PN16-40 | | | | | | | | | | | | | | | | | | |
| 15 | 15 | 45 | 65 | 95 | 115 | 87 | 190 | 16 | 2 | 36 | 42 | 2.75 | 2.75 | 4 | 14 | 3 | 5.2 | 2.3 |
| 20 | 20 | 58 | 75 | 105 | 120 | 90.5 | 190 | 18 | 2 | 36 | 42 | 2.75 | 2.75 | 4 | 14 | 4.7 | 8 | 2.9 |
| 25 | 24 | 68 | 85 | 115 | 125 | 92.4 | 190 | 18 | 2 | 42 | 50 | 2.75 | 3.5 | 4 | 14 | 9 | 12.5 | 3.9 |
| 32 | 30 | 78 | 100 | 140 | 130 | 106.9 | 190 | 18 | 2 | 42 | 50 | 2.75 | 3.5 | 4 | 18 | 11 | 14 | 5.5 |
| 40 | 38 | 88 | 110 | 150 | 140 | 121.9 | 235 | 18 | 3 | 50 | 70 | 3.5 | 4.5 | 4 | 18 | 18 | 24.5 | 7.3 |
| 50 | 50 | 102 | 125 | 165 | 150 | 129.9 | 235 | 20 | 3 | 50 | 70 | 3.5 | 4.5 | 4 | 18 | 23 | 32 | 10 |
| PN16 | | | | | | | | | | | | | | | | | | |
| 65 | 64 | 122 | 145 | 185 | 170 | 155.8 | 325 | 18 | 3 | 70 | 102 | 4.5 | 5.5 | 4 | 18 | 27 | 36 | 15.3 |
| 80 | 76 | 138 | 160 | 200 | 180 | 162.3 | 325 | 20 | 3 | 70 | 102 | 4.5 | 5.5 | 8 | 18 | 30 | 45 | 19.4 |
| 100 | 98 | 158 | 180 | 220 | 190 | 190.9 | 325 | 20 | 3 | 102 | 125 | 5.5 | 6.5 | 8 | 18 | 37 | 55 | 25.7 |

| NPS | d | G | C | D | L | H | W | T | f | D1 | D2 | R1 | R2 | N | M | Torque (in-lb) | | Weight (lb) |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|------|----------------|-----------|-------------|
| | | | | | | | | | | | | | | | | Action | Breakaway | |
| PN16-40 | | | | | | | | | | | | | | | | | | |
| 1/2" | 0.59 | 1.77 | 2.56 | 3.74 | 4.53 | 3.43 | 7.48 | 0.63 | 0.08 | 1.42 | 1.65 | 0.11 | 0.11 | 4 | 0.55 | 26.6 | 46 | 5.1 |
| 3/4" | 0.79 | 2.28 | 2.95 | 4.13 | 4.72 | 3.56 | 7.48 | 0.71 | 0.08 | 1.42 | 1.65 | 0.11 | 0.11 | 4 | 0.55 | 41.6 | 70.8 | 6.4 |
| 1" | 0.94 | 2.68 | 3.35 | 4.53 | 4.92 | 3.64 | 7.48 | 0.71 | 0.08 | 1.65 | 1.97 | 0.11 | 0.14 | 4 | 0.55 | 79.7 | 110.6 | 8.5 |
| 1-1/4" | 1.18 | 3.07 | 3.94 | 5.51 | 5.12 | 4.21 | 7.48 | 0.71 | 0.08 | 1.65 | 1.97 | 0.11 | 0.14 | 4 | 0.71 | 97.4 | 123.9 | 12.1 |
| 1-1/2" | 1.5 | 3.46 | 4.33 | 5.91 | 5.51 | 4.8 | 9.25 | 0.71 | 0.12 | 1.97 | 2.76 | 0.14 | 0.18 | 4 | 0.71 | 159.3 | 216.8 | 16 |
| 2" | 1.97 | 4.02 | 4.92 | 6.5 | 5.91 | 5.11 | 9.25 | 0.79 | 0.12 | 1.97 | 2.76 | 0.14 | 0.18 | 4 | 0.71 | 203.6 | 283.2 | 22 |
| 2-1/2" | 2.52 | 4.8 | 5.71 | 7.28 | 6.69 | 6.13 | 12.8 | 0.71 | 0.12 | 2.76 | 4.02 | 0.18 | 0.22 | 4 | 0.71 | 239 | 336.3 | 33.7 |
| 3" | 2.99 | 5.43 | 6.3 | 7.87 | 7.09 | 6.39 | 12.8 | 0.79 | 0.12 | 2.76 | 4.02 | 0.18 | 0.22 | 8 | 0.71 | 265.5 | 398.3 | 42.9 |
| 4" | 3.86 | 6.22 | 7.09 | 8.66 | 7.48 | 7.52 | 12.8 | 0.79 | 0.12 | 4.02 | 4.92 | 0.22 | 0.26 | 8 | 0.71 | 327.5 | 486.8 | 56.7 |

| | | | |
|----------|------------|-------------|-------------------------------------|
| CHECK BY | DRAWING BY | DATE | SPECIFICATION |
| | | Jul.22.2014 | 2-PC Flanged End Ball Valve PN16/40 |
| | | | MATERIAL |
| | | | CF8M/WCB |
| | | | PROCESS/Nr. |
| | | | |
| | | | UNIT / SCALE |
| | | | mm |

| | | | |
|----------|-------------|------|---------|
| Revision | Description | Date | Approve |
| | | | |

| | | |
|-------------|------------|------------|
| DRAWING NO. | KH2FD16AIT | KH2FD16IIT |
|-------------|------------|------------|



KH2FD16IIT



KH2FD16AIT

PRESSURE-TEMPERATURE RATING

TEMPERATURE °C

